CONSTRUCTION NEWS

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

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RAILWAYS.

ABILENE & NORTHERN.—An extension may be built from Abilene, Tex., south to Comfort, Tex., where it will connect with the San Antonio & Arkansas Pass R. R. It will pass through Brady, where it will connect with the Fort Worth & Rio Grande division of the Frisco System. The Abilene & Northern was recently completed to Abilene. It connects with the Wichita Valley road, of which system it is a part. By building to Comfort, a new and direct line between San Antonio and points in North Texas will be formed. Edward S. Hughes is Pres., Abilene.

BALLINGER & ABILENE.—C. A. Doose, Pres., Ballinger, Tex., confirms the statement made that this company has been granted a charter to build a line 53 miles long from Ballinger to Abilene, Tex. The other officers are John I. Guion, First Vice-Pres.; J. W. Powell, Second Vice-Pres.; Tom Ward, Third Vice-Pres.; J. McGregor, Secy.; Jo Wilmeth, Treas.; W. J. McDaniel, Ch. Engr. and Gen. Mgr.; C. O. Harris, Gen. Attorney; C. H. Willingham, W. J. Miller and W. E. Allen, of Ballinger; and Cicero Smith and R. K. Wylie, of Mineral Wells, are also among the incorporators. Noted fully on Nov. 14, Dec. 19 and Jan. 2.

BOSTON & MAINE.—Extensive improvements will be made in Portsmouth, N. H., including a new steel bridge. F. A. Merrill is Asst. Ch. Engr., Concord, N. H.

BITTER ROOT R. R.—Incorporated in Montana to build a railroad from Lewiston, Idaho, to Butte, Mont. It is said that no survey of the proposed new road has yet been made, but it is estimated that it will be about 250 miles long. The following is the description of the proposed route as set out in the articles of incorporation: From Lapwai Junction on the Clearwater River in Nez Perce County, Idaho, in an easterly direction by some eligible route along the valleys of the Clearwater River and Middle Fork thereof, thence in a general easterly direction across the headwaters of the Bitter Root River by some eligible route to the city of Butte. Estimated distance, 250 miles. The officers of the Bitter Root Railroad Co. are: Pres., Curtis G. Sutherland, of Portland, Ore.; Secy., H. F. Connor; Director, W. W. Cotton. The stockholders are the above named officers and W. R. Litzenberg. Capital stock is now $400,000. Noted on Oct. 3.

BUFFALO CREEK & GAULEY.—Surveys are stated to have been made by this company for an extension from Cresmont, W. Va., to Camden-on-Gauley, 40 miles. Wm. D. Janney is Ch. Engr., Clay, W. Va.

BRISTOL & KINGSPORT.—We are officially advised that estimates are not yet completed for this railway. Two lines have been surveyed between Kingsport to Bristol, Tenn., one via Blountville, and the other via Silvicola. It will be about 34 miles long. Surveys are completed. Line will be decided upon when estimates are completed. Maximum grade, 1%; maximum curve, 4°. F. H. Cothran is Ch. Engr., Bristol. Noted on Nov. 14.

CENTRAL RAILWAY OF OREGON.—This company probably will build an extension from Cove, Ore., to La Grande, 20 miles, and from Union to Cornucopia, 60 miles. Arthur B. Brown is Gen. Supt., Union, Ore.

CHICAGO, BURLINGTON & QUINCY.—Change of alinement through Hannibal, Mo., is under consideration for this year, we are officially advised. No detailed plans have yet been prepared. W. L. Breckinridge is Engr. Lines East of Missouri River, Chicago.

COLUMBIA RIVER, OUTLOOK & NORTHERN.—W. McF. Stewart, Pres., Outlook, Wash., states that it is expected to complete all surveys and the preliminary work of securing right-of-way during 1908. The proposed road will extend from Vancouver to Spokane, Wash., 300 miles.

FARMERS' & MERCHANTS' RY.—Incorporated in Oklahoma with a capital stock of $6,000,000 to build from the north line of Hardeman County, Tex., to the north line of Harper County, Okla., 200 miles. Incorporators: H. W. Morris and C. B. Hollmark, of Eldorado, Okla., and W. G. Crowder, L. Simpson and M. M. Hawkins of Quanah, Tex. (See Oklahoma Southern.)

GRAND RAPIDS & INDIANA.—Company has awarded contract to the McDONNELL-O'CONNOR CO. of Grand Rapids, Mich., for building a 10-mile extension from Ardis, Mich. Surveys are being made from Harbor Springs northwest twelve miles. E. H. Barnes, Ch. Engr., Grand Rapids.

IOWA.—We are officially advised that grading has been started on the 2½ miles of terminals and four miles of mine connection track at the plant of the Hawkeye Portland Cement Co., Harvey, Iowa. The FREEBORN ENGINEERING & CONSTRUCTON CO., of Kansas City, Mo., are the engineers and contractors.

LOUISIANA & PINE BLUFF.—Contract has been awarded to S. R. NEEL, of Huttig, Ark., for building an extension from Dollar Junction, Ark., to New London, 15 miles, it is reported. An extension is projected from New London to Wilmington, 15 miles further. A. W. Corkins is Gen. Supt., Huttig.

MIDDLE TENNESSEE R. R.—We are officially advised that no arrangements have been made yet for letting contracts. As noted on Nov. 7, this company has filed its charter in Tennessee. The nominal capital stock is $10,000. The incorporators are J. W. Howard, J. H. Carpenter, Arra Holtz, Meade Frierson and R. G. Sparrow, all of Columbia, Tenn. The company proposes to build from Leatherwood Creek in Hickman County to the headwaters of Liepers Creek in Maury County, about 20 miles, traversing a rich and valuable phosphate field.

MISSISSIPPI.—E. N. Case & Sons of Dothan, W. Va., have purchased through M. T. Banta & Co., of Jackson, Miss., a large tract of timber land in Sunflower County, Miss., and will develop it, also building seven miles of steel railroad.

The Steele's Bayou Tramway & Mfg. Co. has been incorporated with $50,000 capital stock, to construct and operate private standard-gage steel railway for hauling lumber from mill of the Issaquena Land & Lumber Co. on Steele's bayou to the Yazoo and Mississippi Valley R. R. at Moore's Siding, a distance of about five miles. Also to construct and operate sawmills along the line, etc. Incorporators are George J. Nattkemper and J. R. Connelly, of Terre Haute, Ind.; G. M. Sims and J. E. Meadows, of Memphis, Tenn.

NEW MEXICO.—The New Mexico Development Co. has been incorporated in New Mexico to build a railway from Columbus, N. Mex., to the coal fields of San Juan County, New Mexico, and of La Plata and Montezuma counties, Colorado. The headquarters of the new company are at El Paso, Tex.

NORTHWESTERN PACIFIC.—A cut-off via Greenbrae will be built on the line between San Rafael and San Francisco. J. W. Hunter, Tiburon, Cal., is Supt.

OHIO.—Z. W. Davis, of Canton, Ohio, who sold to Joseph Ramsey, Jr., the Ashland & Western Ry., states that in the spring he will build a line from Akron to Mogadore, Ohio, on the right-of-way of the old Akron Transfer line and tracks in Akron, and on a new right-of-way secured east of Akron. The Akron Transfer was bought by Mr. Davis from C. W. French with the other Lake & River properties, including the Ashland & Western line. The new deal is important in view of the extension of the Lake Erie & Western, a New York Central line, east from here through Mogadore to Deerfield, where it will connect with the Lake Erie & Pittsburg, also a New York Central system, being built through Cuyahoga Summit and Portage counties eastward. The importance of the link will also be enhanced by its connection at Mogadore with the Cleveland, Lake Erie & Western.

OKLAHOMA SOUTHERN.—Chartered in Oklahoma with a capital stock of $7,500,000 to build from the intersection of the line of Grayson County, Tex., and the Red River to the west boundary of Greer County, Okla., passing through the counties of Love, Carter, Tillman, Jefferson, Stephens, Comanche, Kiowa and Jackson, a total distance of 250 miles. The headquarters of the company are at Eldorado, Okla., and the following are the incorporators: H. W. Morris and C. B. Hollmark, of Eldorado, Okla.; W. G. Crowder, L. Simpson and M. M. Hawkins, of Quanah, Tex. (See Farmers' & Merchants' Ry.)

OREGON.—We are officially informed by the Eugene Commercial Club that the plans for construction of a railroad from Eugene, Ore., to tidewater on Siuslaw River have been abandoned for the time being.

OVERTON COUNTY.—This company may build an extension from Livingston, Tenn., to Somerset, Ky., 74 miles. The company now operates a line from Algood to Livingston, Tenn., 19 miles, making connection with the Southern Ry. at Algood. George L. Wilkins is Pres., 1007 Marquette Bldg., Chicago, Ill., and E. C. Knight, Secy., Livingston, Tenn.

PACIFIC & EASTERN.—George Estes, Mgr., 607 Lafayette Bldg., Portland, Ore., announces that an extension from Eagle Point to Butte Fall, Ore., 21 miles, is proposed.

ROCKPORT, LANGDON & NORTHERN.—This project has been financed and construction work is expected to begin soon. The road will run from Rockport, the county seat of Atchison County, Mo., to Shenandoah, Iowa, connecting with the Burlington and Wabash systems and tapping a fertile country. It is the intention to extend the line eventually as far as Des Moines, Iowa. Woodford N. Davis, of St. Joseph, Mo.; Patrick J. White and Edward S. Roemer, of St. Louis, Mo., are the promoters.

SOUTHERN BRITISH COLUMBIA.—This company is making application for permission to build a standard-gage railway from a point on the main line of the Canadian Pacific R. R., six miles east of Kamloops, to Grand Prairie, a distance of 30 miles. J. T. Robinson, Kamloops, B. C., is interested. This line will be rushed to completion as soon as the charter is granted, the purpose of building the line being to ship the gypsum now being mined at Grande Point.

ST. LOUIS, BARTLESVILLE & PACIFIC.—Contract for grading a portion of this proposed line from Joplin, Mo., to Pond Creek, Okla., 229 miles, has been let to the J. C. WHITE CONTRACTING CO., of Bartlesville, Okla. D. H. Rhoades is Ch. Engr., 213 West Fourth St., Joplin, Mo. Noted on Oct. 17.

VEBLEN & NORTHWESTERN.—We are officially informed that the railway to be constructed by this company will run from Veblen, S. Dak., to Wheaton, Minn., 37½ miles. Right-of-way and necessary capital have been obtained and surveys made. Date for receiving bids and letting contracts has not been decided. H. A. Blake is Ch. Engr., St. Louis, Mo. A. H. Dahl is Pres., Vernon, S. Dak. Noted on Dec. 12.

WATERLOO, PELLA & SOUTHWESTERN.—Right-of-way is being secured and surveys are in progress for this railway, which will run from Waterloo, Blackhawk County, to Charlton, Lucas County, Iowa, 120 miles. It will connect the towns of Waterloo, Traer, Toledo, Tama, Sheridan, Grinnell, Sully, Pella, Howell, Durham, Attica, Columbia, Oimitz and Charlton. It will connect the

lines of eight large railway systems as shown in the following: At Waterloo, Iowa, with the Illinois Central, the Chicago Great Western and the Chicago, Rock Island & Pacific; at Traer, Iowa, with the Chicago & Northwestern and the Chicago, Rock Island & Pacific; at Toledo, Iowa, with the Chicago & Northwestern; at Tama with the Chicago & Northwestern and the Chicago, Milwaukee & St. Paul; at Grinnell, Iowa, with the Iowa Central and the Chicago, Rock Island & Pacific; at Sully with the Iowa Central; at Pella with the Chicago, Rock Island & Pacific; at Howell, Iowa, with the Wabash; at Durham, Iowa, with the Chicago, Burlington & Quincy and the Chicago, Rock Island & Pacific; and at Chariton with the Chicago, Burlington & Quincy. It is stated that this proposed railway will develop one of the finest coal mining fields in the state, and will supply northeastern Iowa with ample coal supplies for both manufacturing and domestic uses. The line will also traverse a very fertile farming and stock raising section. The company was incorporated April 3, 1907. The following are the officers: B. F. Keables, Pres.; E. A. Harris, First Vice-Pres. and Gen. Mgr.; H. Rhynsburger, Second Vice-Pres.; S. G. Vander Zyl, Third Vice-Pres.; J. H. Vander Linden, Auditor; John Dykstra, Treas.; P. H. Bousquet, Secy.; T. L. Blank, Ch. Engr. The general offices will be at Pella, Iowa. Noted on May 30, Oct. 3, Oct. 31, Nov. 14.

WICHITA FALLS & SOUTHERN.—It is officially announced that this company will build a 14-mile line from Olney to Belknap, Tex. Construction probably will begin in the early spring. J. A. Kemp is Pres., and J. W. Field, Ch. Engr., Wichita Falls, Tex. Noted on Aug. 29.

ELECTRIC RAILWAYS.

NEW YORK, N. Y.—Charles S. Mellen, Pres. of the New York, New Haven & Hartford R. R. Co., in his reply, made public on Jan. 2, to the resolution passed by the Board of Estimate on Dec. 20, asking for information regarding the properties owned by the Millbrook Co., says that the New Haven road, through this holding company, controls the New York & Port Chester and the New York, Westchester & Boston Ry. Cos. Pres. Mellen says it is the intention of his road to build and operate an electric line between New York city and Port Chester and to merge the two companies. These franchises carried with them the understanding that at least $1,000,000 was to be expended annually in construction work until the roads were completed. Opposition on the part of property owners and lawsuits by stockholders of the Westchester company are, briefly, the reason assigned by Pres. Mellen for the delay. After saying that the New Haven road owns all the stock of the Millbrook company Mr. Mellen continues: "The purpose and desire of this company is to construct such railroad upon the best available route between the Harlem River and Port Chester, whether the route already laid down by the New York & Port Chester R. R. Co., or the New York, Westchester & Boston Ry. Co., or the New York, New Haven & Hartford R. R. Co. The plan under which this construction is to be made has not taken final form only because of the resistance by property owners disputing in the courts the validity of the charter of the New York, Westchester & Boston Ry. Co. The New York, New Haven & Hartford R. R. Co. has no preference as to the charter finally to be accepted, its only desire being that the road shall be built under the charter of the company which shall be free from legal question." The reply, it is expected, will come up for action at the next meeting of the Board of Estimate, on Jan. 10.

BETHLEHEM, PA.—The Slate Belt Elec. St. Ry. running from Nazareth to Bangor, a distance of 14½ miles and connecting at the former place with the Lehigh Valley Transit Co., and at the latter place with the Bangor & Portland Traction Co., has passed into the hands of the bondholders, who effected an organization by electing George K. Mosser, of Nexin, Pres., and Dennis G. Gerberich, of Allentown, Gen. Mgr. The other officials are still to be appointed.

MONONGAHELA, PA.—The application of the Monongahela & Carroll Street Ry. Co. to build a street railway in Monongahela has been approved by the City Council. The road will be continued to Bentleyville and later to Washington. It must be completed and in operation within three years. A bond for $5,000 also must be deposited with the city within 30 days to insure the early beginning of construction work. The nominal capital stock is $12,000. E. B. Hartman, Jr., W. D. McBryar, E. W. Marshall, W. S. Walsh and W. E. Walsh, all of Pittsburg, are interested. Noted on Dec. 12.

WEST CHESTER, PA.—The charter of the West Chester & Wilmington Ry. Co. was approved on Dec. 16. It is the intention of the company, which is capitalized at $54,000, to build a trolley line from West Chester to the Delaware State line in Concord township, Delaware County, there to connect with the Delaware section of the road. Headquarters will be established in West Chester. The survey adopted lies through a rich agricultural section. From West Chester the road will go south through West Goshen and Westtown townships, in Chester County, then pass through Thornbury, part of Birmingham and Concord townships, in Delaware County. There is no trolley line in this section, which thus far has been served in its transportation facilities by the Baltimore Central and Central divisions of the Pennsylvania Railroad. It is one of the most important dairy districts of Pennsylvania, but the only method of getting the products to Wilmington by rail is to ship by trolley to Lenape, thence by the Wilmington and Northern branch of the Reading system, or connect with the Reading at Chadd's Ford, which makes a long and expensive haul. Thomas E. O'Connell, of West Chester, is Pres. and a director in the company, and other directors are C. P. Faucett, Westtown; James A. Kirkpatrick, Birmingham; Charles Gleason, Brandywine Summit; Willis Passmore, Brandywine; F. Harvey Day, Talleyville, and M. A. O'Connell, of West Chester. Noted on Dec. 5.

FREDERICKSBURG, VA.—The application for a charter for the Fredericksburg & Southern Ry., noted last week, has been made on behalf of Frank J. Gould, 195 Broadway, New York, who intends to build the road in connection with his other enterprises in Virginia. Mr. Gould is Pres. of the Richmond & Chesapeake Bay Ry. Co., which runs from Richmond to Ashland, Va., 15 miles. Ashland is six miles from Doswell, the southern terminus of the proposed Fredericksburg & Southern, which is to be 40 miles long. Alvin T. Embrey is Secy. of the new company, at Fredericksburg; William C. Whitner, of Rock Hill, S. C., is Pres. Mr. Gould is First Vice-Pres. of the Virginia Passenger & Power Co., which operates 118 miles of railway in Virginia.

FAIRMONT, W. VA.—Grading has been completed, it is announced, by the Fairmont & Mannington Elec. Ry. Co., from Fairmont to Mannington, W. Va., 14 miles. As noted on Nov. 7: "Right-of-way has been secured by this company, which is building a line to connect Fairmont, Barrackville, Farmington, Downs and Mannington. At the annual meeting directors were elected as follows: W. M. Laws, Treas. of the Bowling Green Trust Co., of New York; Charles T. White, Asst. Secy. of the Standard Oil Co.; James E. Fairbanks, Elmer B. Yale, F. Brown, and Edward S. Peck, Attorneys, all of New York; J. T. Koen and J. O. Huey, of Mannington, W. Va.; T. W. Fleming, C. E. Manley, and James R. Linn, of Fairmont, W. Va. F. H. Bailey, of Fairmont, is Gen. Mgr."

BLUEFIELD, W. VA.—The Bluestone Traction Co. has been granted a 47-year franchise for an extension of its line into South Bluefield, via Bland St., it is reported.

CHARLESTON, S. C.—The Charleston & Summerville Electric Ry. Co. has been reorganized. The directors are: Pres., Julius G. Hocke, 15 Whitehall St., New York; Secy. and Treas., George Tucker, Summerville, S. C.; General Counsel, St. Julien Grimke, Charleston, S. C.; F. S. Wright, 34 Pine St., New York; W. O. Sprigg (Pres. of the General Contracting & Engineering Co., New York.) It is expected that construction will be resumed in January on the proposed line, which will be about 20 miles long, from Charleston to Summerville, N. C. Noted on Dec. 19.

ATLANTA, GA.—The Atlanta & Carolina Railway Co., Atlanta, Ga., has been granted a franchise for the operation of its line through Athens, Ga. Work is to be started on the road within one year and be completed within three years from the date of the franchise. James W. English is Pres. Noted fully on Dec. 5.

MEMPHIS, TENN.—H. E. Craft, Vice-Pres. of the Lake View Traction Co., and the Clarksdale, Covington & Collierville Traction Co., Memphis, advises us that date for letting contracts is indefinite. It is proposed to build an electric line from Memphis to Lake View, Tenn., and Clarksdale, Miss., 77 miles. Surveys are made and right-of-way secured. Capital is obtained. R. F. Tate is Pres., H. G. Ferree is Ch. Engr., 127 Madison St., Memphis.

WOOSTER, OHIO.—David Collier, Vice-Pres. of the Wooster & Mansfield Elec. Ry. Co., Plimpton, Ohio, advises us that this company plans to build an electric railway between Wooster, Shreve, Lakeville, Loudonville, Perrysville, Lucas and Mansfield, 41 miles, paralleling the Pennsylvania Lines. Surveys are made and about 70 per cent. of the right-of-way secured. Mr. Collier states that "we have not been able to finance the project up to the present time. Have most of the franchises and one of the best propositions in the state."

INDIANAPOLIS, IND.—Charles McDermott, Secy. of the Indianapolis & Cairo Traction Co., Indianapolis, states that this line has been surveyed from Indianapolis to Sullivan, 80 miles. Grading has been completed from near Robinson to Olney, 16 miles. When completed the road will connect Indianapolis and Cairo, Ill., a total distance of 258 miles, and will serve Sullivan and Robison, Ind., Olney, Fairfield, McLeansboro, Marion, Vienna and Mound City, Ill. A. L. Hassler is Pres., 411 State Life Bldg., Indianapolis. This company was incorporated recently in Arizona with $10,000,000 capital.

MILLERSBURG, OHIO.—D. S. Olmstead, Pres. of the Millersburg & Eastern Ry. Co., states that construction work will begin in a few weeks. The road will be 26 miles long and it will connect Millersburg, Wilmot, Berlin Trail and Beach City. Electricity will be used as motive power. Capital stock is $600,000. The following are the present officers of the company: D. S. Olmstead, Millersburg, Pres.; D. M. Miller, Millersburg, Vice-Pres.; Theodore A. Craig, Secy.; Ira W. Adams, Millersburg, Treas. Noted on Nov. 21.

BURLINGTON, IND.—A. A. Newer and others of Burlington, are interested in plans to build an interurban line from Logansport to Frankfort by way of Burlington. The citizens of Frankfort are reported to have given assurance that they will subscribe $300,000 of the stock, and parties along the proposed line have promised to take $50,000 and the citizens of Logansport $100,000 or more.

GARY, IND.—The Superior Court of Lake County, Indiana, has refused to grant a writ of mandamus asked by the United States Steel Corporation to compel a referendum vote on the franchise which was recently granted to Frank N. Gavitt for the Gary & Interurban R. R. The franchise has been transferred to the Chicago-New York Electric Air Line R. R.

CHICAGO, ILL.—Chicago, Joliet & Central Illinois Ry. Co., with principal office at Chicago, has been incorporated with a capital of $2,500, to construct and operate a railway from Chicago through Lyons, in Cook County; Downers Grove, Du Page County; Du Page in Will County, thence south through Lockport and Joliet in Will County, and to other points in the counties of Cook, Du Page, Will, Bureau, Peoria, Kendal, Grundy, La Salle, Livingston, Putnam, Marshall, McLean and Woodford. The incorporators and first board of directors are as follows: Josiah Burnham, Hugo De Loeb, George L. Turnbull, Gerald Turnbull and L. H. Strickler.

KEOKUK, IOWA.—T. A. Craig, Secy. of the Keokuk & Columbus Junction Transit Co., Keokuk, advises us that date has not been decided upon yet for letting construction contracts. The company will build an electric line 75 miles in length. Preliminary surveys have been completed between Keokuk and Columbus Junction. The road will serve the towns of Charleston, New Boston, Donnellson, Franklin, West Point, Lowell, New London, Winfield, Columbus City and Columbus Junction. The officers are: J. E. Peterson, Pres., New London; D. B. Hamil, Vice-Pres.; Theodore A. Craig, Secy.; Ira W. Wills, Treas.; all of Keokuk.

CLINTON, IOWA.—T. J. Wilcox, of Clinton, is promoting the proposed 80-mile interurban line, which will connect Clinton and Dubuque, Iowa, by way of Maquoketa. It will be a third-rail line, but the overhead trolley will be used in the cities and towns through which it passes. It will cost about $2,500,000. The route has been surveyed from Clinton to Maquoketa, and surveyors are now working from Maquoketa to Dubuque. R. C. Hart is Engr. in charge.

ATLANTIC, IOWA.—The Atlantic & Northern Interurban, Co. will build an extension from Atlantic to Villisca, it is reported. It is to be 38 miles long. The line north from Atlantic to Kimballton will be ready for operation soon. H. S. Rattenberg, Gen. Mgr., Atlantic, Iowa.

DULUTH, MINN.—S. F. Snively, C. P. Craig and John G. Williams are interested in the construction of an electric railway from Woodland Ave., Duluth, to Jean du Lach farm, about six miles.

MINNEAPOLIS, MINN.—F. G. L. Hunt, Ch. Engr. of the Minneapolis, St. Paul, Rochester & Dubuque Electric Traction Co., International Bldg., Minneapolis, advises us that contracts probably will be awarded during February and March for building this line. It will connect Minneapolis and St. Paul with Northfield, Owatonna and Rochester, Minn.; Cresco, Decorah and Dubuque, Iowa, 265 miles. Twenty-one miles of grading have been completed. Right-of-way is nearly all obtained. Surveys are completed. M. W. Savage, Minneapolis, is Pres. Noted on Oct. 10 and Oct. 31.

OMAHA, NEB.—The Omaha & Nebraska Central Ry. Co. probably will award contracts for grading and track material in the spring of 1908, after which active construction work will be carried on. The proposed road is to be 159 miles in length, and it will extend from Hastings to Omaha. The officers of the railway company are as follows: H. C. Long, 617 Fremont Bldg., Boston, Mass., Pres.; A. Texter, David City, Neb., Vice-Pres.; J. H. Rogers, Hastings, Secy.; E. R. Long, David City, Neb., Treas.; J. C. Baker, Hastings, Gen. Mgr. Noted on Dec. 12.

NEVADA, MO.—Surveys have been made for the Kansas City & Springfield Southern Ry., which proposes to build an electric railway between Nevada and Springfield, with a branch line to Carthage. The present capital stock is $3,750,000, to be increased to $4,500,000. The total length of the line, including sidings, will be 140 miles. Motive power will be electricity, to be furnished from a power station which is to be built near Arcola, Mo. The company will also own and control an amusement park near the Sac River. The officials of the Kansas City & Springfield Southern Ry. are as follows: W. B. Forsyth, Pres.; S. A. Wight, Secy.; J. W. Creekman, Treas.; C. C. McFann, of Nevada, Mo., Gen. Mgr., to whom all communications should be addressed.

EXCELSIOR SPRINGS, MO.—Edgar Main, Ch. Engr. of the St. Joseph, Excelsior Springs & Lexington Ry. Co., Liberty, Mo., advises us that date for letting construction contracts has been let indefinitely. This company proposes to build from Excelsior Springs to Vibbard, six miles, as noted on Nov. 14.

AURORA, MO.—Surveys for an electric railway which will connect Springfield and Joplin, Mo., have been made by Henry L. Davis, City Surveyor.

LITTLE ROCK, MO.—The Little Rock & Pine Bluff Traction Co. has awarded contract to the ARKANSAS CORRUGATED METAL CULVERT CO., of Little Rock, for all culverts and conduits on 58 miles of railway. For other details and contractors see issue of Jan 2.

DALLAS, TEX.—Fred A. Jones, Ch. Engr. of the Texas Traction Co., states that the grading is completed, most of the bridges finished, and that many of the ties and rails have been delivered ready for laying the track. The rails will be laid first on the northern section of the line, from McKinney to Sherman. The line will be built from Sherman to Dallas, 62 miles.

S. A. Semmons, Secy. of the Dallas Interurban Electric Ry. Co., which proposes to build a line from Dallas via Orphans' Home, Forney and Mesquite to Terrell, Tex., has announced that work on this line will begin this month, construction being started simultaneously at Dallas and Terrell. Later there will be an extension to Tyler, Tex. The company also proposes another line from Dallas via Rockwall to Greenville, with a connection to Terrell, making a loop. The company has 23 miles of franchises in Dallas, as well as right-of-way for interurban lines. Noted on Dec. 12.

PUEBLO, COLO.—The Pueblo & Arkansas Electric Ry. Co. has been incorporated in Colorado to build an electric interurban line connecting Pueblo and Rocky Ford, Colo., and the intermediate towns of Avondale, Vineland and Fowler, in Otero County. The line as proposed will form part of an interurban system of electric [illegible] which will serve the entire Arkansas [illegible] including possible southern terminus [illegible] ital stock, $300,000. [illegible] Chapze, M. J. Verner, [illegible] hitt, all of Kansas City, [illegible] Saunders, Pueblo, Colo. [illegible] N. Douthitt, Pres.; F. R. [illegible] B. Chapeze, Treas.; N. C. [illegible]

DENVER, COLO.—H. W. [illegible] of the Denver & Interurban [illegible] that this company will build [illegible] of electric road in Boulder [illegible] electrical operation, the [illegible] (steam) Ry., which it has [illegible] planned to have this finished [illegible] The company has completed [illegible] an electric line on the right-of-way of the Colorado & Southern Ry. [illegible] Louisville Junction, 16¾ [illegible] to have the entire road completed [illegible] in 1908. A. D. Parker is [illegible] Denver.

VENTURA, CAL.—A [illegible] construction of an electric [illegible] Ventura to the Ortega ranch [illegible] ed to Julian P. Jones and [illegible] Los Angeles, Cal., as previously [illegible] ian P. Jones, Mgr. of the [illegible] Ry. Co., 506 Citizens' Nat. Bank Bldg., Los Angeles, Cal., has advised [illegible] that this company proposes to build [illegible] way to the cement rock quarry, a distance of 25 miles; also a 5-mile branch line to Nordhoff and the Ojai Valley. Preliminary surveys are made. Right-of-way is practically secured and capital is partly obtained. Contracts will be let when finances and conditions are improved. This railway is to be built in connection with a [illegible] to be built at Tidewater, [illegible] a daily capacity of 2,000 [illegible] prises will be owned and [illegible] by the Ventura Industrial & Security Co. Bonds will be sold. Wm. A. Ramsey is Ch. Engr., I. W. Hellman Bldg., Los Angeles, Cal.

MONTEREY, CAL.—Financial arrangements have been concluded for the construction of an electric railway from Monterey to Carmel-by-the-Sea. Surveys are being made by H. B. Fisher, Ch. Engr., San Jose, Cal. Frank Powers, of the Carmel Development Co., San Francisco, is interested in the new line.

LOS ANGELES, CAL.—The Los Angeles Ry. Co. will build an extension of the Eagle Rock line to East Glendale. G. J. Kuhrts is Ch. Engr.

*PHOENIX, ARIZ.—Andrew Neilson, Redmond Toohey and Harry J. Bennett have applied to the Board of Supervisors of Maricopa County for a franchise for an electric railway between Phoenix and Mesa, by way of Tempe, utilizing the Tempe road. As premium, the county is offered 1 per cent. of the gross income after five years of operation. The franchise is to be forfeited if the entire line be not completed within three years.

S. S. Green and S. S. Soull, who hold a franchise, have interested capitalists in the construction of an electric railway between Phoenix and Buckeye.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

LEWISTON, ME.—The Lewiston, Augusta & Waterville Street Railway Company expects to place contracts during the next two months for the construction of two substations. The company will also purchase eight semi-convertible cars. E. D. Reed is Gen. Mgr.

HOLYOKE, MASS.—The contract for installing a 2,500-KW. turbo-generator for the use of the lighting department, is reported to have been awarded to the GENERAL ELECTRIC CO., of Schenectady, N. Y., for $45,000. W. H. Snow is Mgr.

BOSTON, MASS.—Bids are asked by the Trustees of the Consumptives' Hospital, 1151 Tremont Bldg., until noon, Jan. 16, for building a power house and tunnel.

NEW YORK, N. Y.—We are officially advised that the RAYMOND CONCRETE PILE CO., 71 Nassau St., New York, has been awarded the contract for placing the piles for the foundations of the new Smith St. power house of the Coney Island & Brooklyn Ry. Co. at Ninth Ave. and Smith St. and Gowanus Canal, Brooklyn. Fort, Bacon & Davis, 115 Broadway, are Engrs. A. PASQUINI, 1123 Broadway, is the general contractor.

ALLEGHENY, PA.—Press reports state that bids probably will be asked for soon for repairs and extensions to the municipal light plant of the former city of Allegheny, which will supply lighting to the north side, also to the downtown district of Allegheny. George H. Schaffint is Ch. Engr. Alexander Gray is Supt. Bureau Public Lighting.

READING, PA.—The Supply, Janitors & Repairs Committee of the School Board is considering installing an independent electric light plant in the Administration Building at Eighth and Washington Sts. to furnish light for the two high schools. The cost of a plant of 150 HP. is estimated at $5,000.

EASTON, MD.—The city will consider proposition for granting franchise for light, heat and power plant and contract for lighting the city streets. Martin M. Higgins is Mayor.

ELKINS, W. VA.—The Elkins Light & Power Co. is having plans prepared for erection of an electric-light and power plant. The company will erect a brick power house at a cost of $5,000 to $6,000, to be equipped with engines, generators and other machinery at a cost of about $30,000. John T. Davis is Pres.

COLUMBUS, GA.—Surveyors in the employ of the Columbus Power Co. have completed making a survey of the water power of this city and Chattahoochee River between a distance of West Point, it is stated. In a distance of 35 miles the river falls 365 ft. affording an energy that is estimated to [illegible] over 100,000

HP. Part of this power is owned by the Columbus Power Co. It is the intention of the company to develop these powers from time to time as to meet the demands from new industries established in Columbus and vicinity. Plans have been drawn for another dam and power house two miles north of the city. The company supplies power to the Columbus R. R. Co., F. E. Reidhead, Mgr.; Stone & Webster, 84 State St., Boston, Mass., Gen. Mgrs.

TROY, ALA.—The Pea River Power Co. is planning to develop water power on Pea River at this place and will erect a 3,000-HP. plant. The company owns seven miles of water rights and 50 ft. of right-of-way from its power site. H. D. Boyd is Secy.

MEADVILLE, MISS.—The Meadville Light & Power Co. has been incorporated to build a light and power plant, capacity, 50 KW.; to be in operation by April 1. The HENDERSON IMPROVEMENT CO., Henderson, Tenn., has contracted for installation. D. L. Rush is Mgr. and Engr.-in-Charge. A frame building 30 x 60 ft. will be erected and equipped at a cost of $5,000. Until Feb. 1 the engineer mail should be addressed at Henderson, Tenn.

JEFFERSON CITY, TENN.—The Jefferson City Electric Co. contemplates constructing a street lighting system and installing a company engine and 3-phase direct-current generator to furnish power for woolen mill. T. H. Bass is Pres. and Mgr.

KNOXVILLE, TENN.—Wilkerson & Boyce, Asheville, N. C., are proceeding with arrangements for proposed development of water-power on the French Broad River and the transmission of electrical energy to Knoxville, it is stated. It is planned to build a 15-ft. dam on the river. About 4,500 acres of land have been secured and other property is being optioned. It is reported that $2,000,000 is available for the work. Roland A. Thayer, of Lockwood, Greene & Co., 93 Federal St., Boston, Mass., is interested.

BRISTOL, TENN.—It is stated that the Bristol Gas & Electric Co. will expend about $100,000 in improvements, including installation of coke-manufacturing plant, together with several 500-HP. turbine engines. Electricity probably will be furnished for power. Besides manufacturing coke, the coke plant is intended to utilize the by-products of the fuel. Boilers for the turbine engines will be heated by gas realized from the manufacture of the coke. Between five and six miles of additional gas pipe will be laid to carry the increased production. S. M. Vance, Bristol, is Supt.

LEWISBURG, OHIO.—We are officially advised that the citizens have voted for the issuance of $26,000 of bonds for a combined electric and water system. The Water-Works Board will employ an engineer to prepare plans and specifications.

KNIGHTSTOWN, IND.—The citizens have voted favorably on the question of reconstructing the municipal plant. Bids will be in order for the reconstruction and equipment of the plant at once. S. Wilson is Mgr.

CRAWFORDSVILLE, IND.—The City Council will consider a proposition for construction and equipment of a new electric light plant. H. B. Hulett is City Engr.

INDIANAPOLIS, IND.—Bids are asked by the Trustees for the Central Indiana Hospital for Insane, the State House, until Feb. 4, for installation of one direct-current generator, direct connected to a steam unit (engine or turbine), foundations, steam connections, switchboard panel, with main switch and all necessary connections.

EAST MOLINE, ILL.—Harry D. Swartz, Mgr. of the Central Union Telephone Co., and Charles E. Knorr, representing the Electric & Gas Heating & Lighting Co., have presented to the City Council an ordinance to furnish street lighting and also for lighting the City Hall.

MARINETTE, WIS.—The Menominee & Marinette Light & Traction Co. is reported to have "filed with the city clerk of Marinette a declaration to the effect that it means to surrender its franchise and take out an indeterminate franchise under the public utility law. By this action the company has prevented the City Council from granting a franchise to the Economy Light & Power Co. or any of the three companies now trying to obtain a franchise from the city. The companies will now have to petition the railway for the desired franchise." W. G. Patterson is Mgr. and Ch. Engr.

MILWAUKEE, WIS.—Bids are asked until Feb. 13 by the Board of Public Works for furnishing and erecting in running order ready for use, in a building and on foundations furnished by the city, all machinery and appurtenances thereto to make a complete gas producer plant at Walker and Davidson Sts. The gas producer is to be a part of the municipal electric light plant. Charles J. Poetsch is Chn. and City Engr.

GRISWOLD, IOWA.—Daniel Eppelsheimer, City Clerk, states that the Griswold Light & Power Co. has received a franchise to erect and maintain an electric light plant. The proposed plant will cost about $3,000. R. C. Prather and J. M. McAvoy are interested in the company.

FREMONT, NEB.—It is reported that the City Council has adopted the revised plans of C. A. Chapman, 204 Dearborn St., Chicago, Ill., for the water and light station building, to cost about $23,045. Frank Hammond is Secy., Bd. of Pub. Wks.

*CHINOOK, MONT.—All bids received Dec. 21 for constructing an electric light plant were rejected. New bids will be called for. John C. Duff is Town Clerk.

KANSAS CITY, MO.—E. A. Barth, Engr., has let general, masonry and carpenter contract to the URBAN CONSTRUCTION CO., for constructing the 1-story central heating station No. 2 for the Kansas City Electric Light Co., R. E. Richardson, Mgr. Cost, $20,000.

HOPE, ARK.—Additions and improvements are contemplated to the municipal electric light plant, which include the installation of two boilers, another engine and dynamo, and the construction of a new power house. A new water-works system will also be built. Charles M. Richards is Supt.

GORMAN, TEX.—The Gorman Light & Power Co., recently incorporated, will expend $15,000 in erection of building and installation of machinery. The building is to be of wood, 60x80 ft.; capacity of dynamos, 16,000 c.-p. equivalents. J. R. Barclay is Engr.-in-Charge; F. B. Winters is Mgr.; W. A. Waldrop, Secy. and Treas.

TULSA, OKLA.—The Tulsa Corporation has let contracts as follows: Generator, to the GENERAL ELECTRIC CO., Schenectady, N. Y.; gas engine, to S. M. JONES CO., and ice machinery, to the ICE & COLD MACHINE CO., 3003 North Broadway, St. Louis, Mo. P. M. Gallaway is Mgr.

ANDARKO, OKLA.—The city contemplates issuing $75,000 of bonds for enlarging and improving the electric-light plant. John Brewer is Supt.

STERLING, COLO.—The Sterling Public Service Co. will install during the summer of 1908, one unit of about 200 KW., 2,200-volt, 60-cycle, 3-phase, revolving field generator direct connected to Corliss engine, it is stated. The engine is to be designed for cross-compound high-pressure, but will install engine complete with heaters and condenser. T. M. Crane is Supt.

COLUSA, CAL.—We are officially advised that the Snow Mountain Electric Power Co. will receive bids in the spring for constructing a water-power electric plant to cost $250,000 at Colusa. The Sierra Construction Co. planned the work. The plant is for lighting and power purposes and will develop about 3,000 HP. The flume will be four feet high and six feet wide and will have a fall of 950 ft. A. S. Lindstrom, Willow, Cal., has charge; C. R. Wickes, Willow, is Secy.; C. H. Glenn, Fouts Springs, Cal., is Pres.; B. H. Burton, Colusa, is Vice-Pres.

BATHURST, N. B.—John J. Drummond, of the Drummond Mines Co., of Montreal, Que., and Londonderry, N. S., has applied to the Provincial Government at Fredericton, for right to take power from Grand Falls, on the Nepisiguit River, for conducting mining operations in this county. The Government has granted Mr. Drummond's requests. N. F. C. Parsons is Consult. Engr. for the Drummond Mines Co.; T. M. Burns, Bathurst, is Member of Provincial Parliament for Gloucester County.

LONDON, ONT.—The installation of an electrical distributing plant in connection with the delivery of power by the Hydro-Electric Power Commission will cost $235,000. Plans have been prepared. A. O. Graydon, City Engr.

TORONTO, ONT.—On Jan. 1 the citizens voted for a by-law which provides for supplying the city with power from Niagara Falls. Joseph Oliver is Mayor; C. H. Rust is City Engr.

PORT ARTHUR, ONT.—We are officially advised that contract for generator has been awarded to the ALLIS-CHALMERS BULLOCK CO., Canada Life Bldg., Winnipeg. The cost of the generator in position will be about $8,000.

EDMONTON, ALTA.—R. R. Keely writes us that this city is about to install a 2,000-HP. producer gas engine power plant. The city will require complete new buildings and it is proposed by Mr. Keely to use reinforced concrete. The building will cost between $8,000 and $10,000 and must be ready for the erection of the machinery by May 10 next, so that it will be necessary that the designs be completed at once and construction work begun early in the spring. The system will require six miles of transmission line at 10,000 volts, 3-wire 3-phase 60-cycle spacing of poles 125 ft. and spaces of wires 24 ins.; also all the line material including lightning arresters and switchboard at the sub-station. There will be eight or nine incandescent circuits, two arc light circuits and a power circuit. Mr. Keely desires communications from manufacturers and contractors.

NELSON, B. C.—The Canadian Pacific Ry. Co. is making preparations to electrify certain lines around Nelson. Lorne Campbell states his plant at Bonnington Falls is now capable of generating 20,000 HP., and with the installation of more units can be increased to 36,000 HP. At first it was intended to electrify the line only on the heavier grades, but from information received by Mr. Campbell it appears that the company intends to electrify all its lines in the vicinity of Nelson. It is probable that the trolley system will be adopted.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

CROSSWICKS, N. J.—We are officially advised that NEWTON A. K. BUGBEE, 144 East State St., Trenton, N. J., was awarded the contract on Dec. 27 by the Boards of Freeholders of Burlington and Mercer counties for the construction of a steel bridge over Crosswicks Creek from North Crosswicks, Mercer County, to Crosswicks, Burlington County, at about $18,980.

*ELIZABETH, N. J.—Bids are asked until 3 p. m., Jan. 29, by the Committee of the Board of Chosen Freeholders of Union County, at the Court House, Elizabeth, for a Strauss bascule lift bridge 25 ft. wide by 60 ft. span, in clear, over the Elizabeth River at South First St. Jacob L. Bauer is County Engr.

HOLLIDAYSBURG, PA.—R. B. LONG, Juniata, Pa., and S. B. GABLE and G. W. MYERS, Ducansville, Pa., have been awarded the contract by the County Commissioners of Blair County for constructing bridge abutments.

*BALTIMORE, MD.—The following bids were received on Dec. 27 by the Board of Awards for the construction of the concrete bridge across Gwynn's Falls valley on the line of Edmondson Ave.: Baltimore Ferro-Concrete Co., Glenn Bldg., Baltimore, $179,516; Reilly & Riddle, Roxborough, Pa., $189,962; J. Henry Miller, 110 Dover St., Baltimore, $189,987; $184,477 with Hennibique system of concrete reinforcing; Johnson & Perin Contracting Co., 407 Vickers Bldg., Baltimore, $194,858; C. B. Clark & Co., $196,000; Ferro Concrete Construction Co., Richmond and Harriet Sts., Cincinnati, Ohio, $197,550; New York Continental Jewel Filtration Co., 15 Broad St., New York City, $198,840; Cranford Paving Co., 2620 E St., N. W., Washington, $229,845; W. W. Lindsay & Co., $234,000; Metropolitan Contracting Co., $234,500; David Peoples, Betz Bldg., Philadelphia, Pa., $244,000; Filbert Paving and Contracting Co., Pennsylvania Bldg., Philadelphia, $244,200; Noel Construction Co., German and Calvert Sts., Baltimore, $248,711. The estimate of B. F. Fendall, City Engr., was $180,000.

ALEXANDRIA, LA.—Bids are asked until 4 p. m., Jan. 16, by the Police Jury of Rapides Parish, for the construction of a steel highway bridge on concrete piers at the "Race Track" crossing of Bayou Rapides. Ira W. Sylvester is Consulting Engr., Rapides Bank Bldg., Alexandria.

OWENSBORO, KY.—The Owensboro & Rockport Bridge & Terminal Co. is proceeding with arrangements for the construction of the proposed bridge across the Ohio River between Owensboro and Rockport, Ind. The Osborne Engineering Co., Cleveland, Ohio, are preparing the plans and specifications. S. H. Kennedy, Rockport, Ind., is Pres. Owensboro & Rockport Bridge & Terminal Co.

NAPOLEON, OHIO.—Bids are asked until Jan. 15 by the County Auditor, for constructing the sub-structure and superstructure of a bridge.

TROY, OHIO.—All bids opened on Dec. 27 for constructing the superstructure of a hand-lift bridge over the Miami and Erie Canal at Water St. have been rejected. E. E. Pearson is County Audr.

WAUSEON, OHIO.—Bids are asked until 11 a. m., Jan. 15, by the Auditor of Fulton County, for constructing sub and superstructure of bridge, at a point where Henry, Williams and Fulton Counties join.

INDIANAPOLIS, IND.—The County Commissioners have awarded the contract for constructing two concrete and steel culverts and abutments and piers for the Eagle Creek bridge to W. C. SMITH.

GRANVILLE, IND.—The LAFAYETTE ENGINEERING CO., Lafayette, Ind., has been awarded the contract by the County Commissioners for the erection of the steel bridge over Wabash River at Granville, at $47,400.

RICHMOND, IND.—The Attorney-General has approved the issue of $30,000 bonds for the construction of bridges in Fort Bend County.

INDIANAPOLIS, IND.—The Board of Public Works has ordered plans for the construction of a new bridge over Fall Creek at Capital Ave. Bids will soon be asked. Blaine H. Miller is City Engr.

Specifications will be prepared by Blaine H. Miller, City Engr., for the construction of a bridge over the canal at Udell St. According to the plans, four forms made of boiler plate will be placed in the canal to be used as piers and filled with concrete. A wooden bridge will then be constructed over them.

DETROIT, MICH.—R. H. McCormick, City Engr., has been directed to draw plans and prepare estimates for the construction of a new bridge at a point opposite the upper end of the island.

PEORIA, ILL.—The Toledo, Peoria & Western Ry. Co. contemplate having constructed a new section of the present railway bridge. About 500 ft. of trestle work will be taken out and in its place 300 ft. of filling will be put in and the remainder will be taken up with three new piers and an abutment. The piers will be of concrete, with steel work over them. Estimated cost, $25,000. J. H. Markley, Peoria, Ill., is Mast. B. & B.

CHARLESTON, ILL.—The Toledo, St. Louis & Western R. R. Co. is planning to replace a number of its bridges with concrete bridges, and strengthen others by filling in the trestles and constructing heavy concrete and steel foundations. C. B. Summers, Charleston, Ill., is Rd. Fr. Engr.

CHIPPEWA FALLS, WIS.—A bridge, 480 ft. in length and built on tubular piers, will be constructed across the Chippewa River. The contract has been awarded to the MODERN STEEL STRUCTURAL WORK CO., at $12,744.

DES MOINES, IOWA.—Plans and specifications for the construction of the West Seventh St. viaduct have been completed. The viaduct will be the width of the street and will extend over all the railroad tracks from Cherry to Hubbell Sts. George D. Dobson is City Engr.

FORT SNELLING, MINN.—BAYNE & HEWITT, Minneapolis, Minn., have been awarded the contract for the construction of Ft. Snelling bridge at $230,000. Maj. F. R. Shunk is Engr. in Charge, St. Paul, Minn.

COLUMBUS, KAN.—Bids are asked by the Commissioners of Cherokee County until Jan. 10 for constructing ten bridges throughout Cherokee County.

ARMOUR, S. DAK.—Bids are asked until 1 p. m., Jan. 18, by Charles W. Nowlan, County Audr., for the construction of four steel bridges in Douglas County.

JOPLIN, MO.—The city contemplates having constructed a steel viaduct and approaches across Joplin Creek. Estimated cost, $50,000. Hiram Phillips is City Clk. J. D. Hodgson is City Engr.

HUNTSVILLE, MO.—Forest Morgan, County Engr., is preparing plans for the construction of three steel bridges in Randolph County. Bids will be asked in the latter part of February.

JEFFERSON CITY, MO.—The Williamsville, Greenville & St. Louis Ry. Co., C. H. Smalley, St. Louis, Mo., Pres., will have a bridge constructed across the St. Francis River.

TROY, MO.—Bids are asked until Feb. 13 by the Lincoln County Commissioners for the construction of steel bridge to be erected by Lincoln and St. Charles counties, main span 198 ft. long, resting on tubular piers, with two 18-ft. approaches resting on steel legs with concrete backing.

KANSAS CITY, MO.—The Kansas City Viaduct & Terminal Railway Co., 300 Keith & Perry Bldg., Kansas City, is having plans prepared for a steel and concrete viaduct extension two blocks in length.

FORREST CITY, ARK.—We are officially advised that the contract for the construction at Madison of a 700-ft. steel drawbridge with a concrete foundation was awarded on Jan. 2 by the Board of County Commissioners to the VIRGINIA BRIDGE & IRON CO., Roanoke, Va., at $29,310. F. C. Merwin is County Clk. F. W. D. Rossitt is Chn. Bd. Comrs.

TEXARKANA, TEX.—The bond issue of Wash. (three bids), $3,500, $3,500 and $2,600, crete bridges has been approved by the State authorities.

GUTHRIE, OKLA.—Bids are asked by the City Council until Jan. 15, for constructing abutments for bridges over Cottonwood River at Fifth and Ninth Sts., and for the construction of concrete bridge over Cottonwood River at Fifth St.

SILT, COLO.—Bids are asked by T. W. Jaycox, State Engr., Denver, until noon, Jan. 20, for the construction of a 252-ft. span steel bridge, with concrete abutments, across the Grand River, near Silt.

ROCKFORD, WASH.—All bids for the construction of the bridge over Mica Creek, at Rockford, were rejected on Dec. 20 by the County Commissioners. The bidders were: J. H. Bailey & Co., Cashmere, Wash. (three bids), $3,250, $2,950 and $2,858; The International Contract Co., New York Block, Seattle, Wash., $4,060; William Oliver, Spokane, Wash., (three bids), $3,500, $3,500 and $2,600. A. R. Scott is County Engr.

PORTLAND, ORE.—All bids for the construction of the steel bridge over Sullivan's Gulch on Union Ave., were rejected on Dec. 23 by the Executive Board, as excessive. The estimate of Douglas W. Taylor, City Engr., was $66,000. New bids will be asked. A. L. Barbour is City Audr.

L'ORIGNAL, ONT.—Bids are asked by E. Abbot Johnson, Clk. united Counties of Prescott and Russell, until noon, Jan. 21, for the construction of an iron highway bridge over the Big Castor River, 120 or 125-ft. span; for concrete or stone masonry work, and for removing old bridge, 80-ft. span.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—MEAD, MASON & CO., Tremont Bldg., have the contract for constructing a warehouse for F. W. Lawrence and Harry Wiggin to cost $250,000.

WEST NEWTON, MASS.—The contracts for erecting the Technical Training High School at Walnut St. and Elm Road, Newtonville, have been awarded as follows: Construction, C. L. FELLOWS, 6 Beacon St., Boston, $246,801; plumbing, WILLIAM H. MITCHELL & SON CO., 1 Province Court, Boston, $15,275; ventilating and heating, C. H. SANBORN, 16-18 Post-office Sq., Boston, $42,410; electrical construction, CONANT, WHITING CO., 112 Water St., Boston, $22,183. George H. Elder is Public Bldg. Comr. Bids were opened Dec. 2.

FALL RIVER, MASS.—We are officially advised that Louis P. Destremps & Son, Archs., Bennett Block, Fall River, are preparing plans for a contagious disease hospital. The number of buildings has not been determined. Estimated cost, $125,000.

NEW BEDFORD, MASS.—The following bids were received by the City Property Com. for the Aged and Infirm, Boro of Brooklyn, building: (a) Fall River granite, (b) New Bedford granite. General contract: J. B. Sullivan & Son, 129 Washington St., Taunton, Mass., (b) $148,736; H. T. Bulman, 109 Bonney St., New Bedford, Mass., (a) $156,000; Z. B. Davis, 3 East Pope St., New Bedford, Mass., (a) $160,691, (b) $158,371; B. F. Smith, 429 La Grange St., West Roxbury, Mass., (a) $161,006; C. O. Brightman, 72 North Water St., New Bedford, Mass., (a) $161,500, (b) $159,000; J. W. Bishop Co., 107 Foster St., Worcester, Mass., (a) $169,711; G. H. Cutting & Co., 11 Foster St., Worcester, Mass., (a) $181,497; H. A. Miller, 232 Grennell St., New Bedford, Mass., (a) $198,627, (b) $195,627.

SYRACUSE, N. Y.—M. D. Rubin, Grand Opera House Block; John P. Schlosser and Floyd R. Todd, Supervisors, Committee on Care of County Buildings, have been appointed to take charge of the building of the new women's building at the County Home. The Board approved the plans which will be sent to the State Board of Charities for approval. Proposals for the work will be asked for. The building is to cost about $100,000 and bonds will be issued for this purpose.

NEW YORK, N. Y.—We are advised by Schwartz & Gross, Archs., 347 Fifth Ave., that plans have been filed with the Buildings Superintendent for a 10-story fireproof apartment house to be built for Paterno Bros., 45 Morningside Ave., on 116th St., 175 ft. west of Broadway. It is to be of brick, with trimmings of limestone and terra cotta, with a frontage of 50 ft. and a depth of 84.11 ft. It will have accommodations for 41 families. It is to cost $200,000. Contracts will be let by the owners.

Bids are asked by Robert W. Hebberd, Comr. Public Charities, until 2 p. m., Jan. 22, for repairing the roofs and painting the exterior walls of the New York City Home for the Aged and Infirm, Boro o Brooklyn.

NEW YORK, N. Y.—We are advised by Morgan & Barkhausen, Archs., 111 Broadway, that contracts will be let in about two weeks for the new amusement hall to be built in the Harlem River Park, at Second

Ave. and 127th St., to replace the old Sulzer's Casino, destroyed by fire last fall. The proposed building will be fire proof and of classic design, comprising a basement, main floor and mezzanine gallery, surmounted by a peaked dome. The façade will be of tile with decorative stucco work. The building will have a frontage on the avenue of 132 ft. and a depth of 217 ft., with a high arched main entrance on the avenue and entrances with Ionic colonnades and staircase on the street. Estimated cost, $200,000.

The Board of Education has decided to erect a school building in the Ridgewood section, Brooklyn. The new high school house is to be built on the site of what was known as the Union Cemetery, which is now owned by the city. It is bounded by Putnam, Knickerbocker and Irving Aves. and Palmetto St. C. B. J. Snyder is Supt. School Bldgs.

BUFFALO, N. Y.—The New York Central & Hudson River R. R. Co. has filed plans with the Bureau of Building for remodeling, extending and improving its depot building on Exchange St. at a cost of $150,000. D. L. Somerville, Div. Engr., Buffalo, has charge of work.

ALBANY, N. Y.—George McLaughlin, Secy. State Comn. on New Prisons, writes us that the architect for the new prison at Highland Lake will be selected by a public competition soon. The buildings will consist of a complete plant for a state prison including cell house, administration building, warden's residence, domestic building, school building, shops for eight or ten industries, power-house, barn, prison wall, and other equipment at the estimated cost of $2,000,000. The materials to be used probably will be brick and concrete. Bids probably will be received in the spring. How much construction will be undertaken this year cannot be stated until after the Legislature has determined the amount of appropriation for this year.

SEA BRIGHT, N. J.—We are officially advised that Swallow & Howes, building contractors, 500 Fifth Ave., New York, are about to let sub-contracts for plumbing, heating, sheet-metal work and roofing for the church at Sea Bright, N. J., for which they have the general contract. Walker & Gillette, 131 West 40th St., New York, are Archs.

NEW CASTLE, PA.—We are officially advised that plans prepared by W. G. Eckles, Lawrence Trust Bldg., New Castle, for a 3-story brick and stone high school to be erected here, have been adopted. Bids will be received about May 1. The building will be 200 × 190 ft., and will cost $250,000. Cost of equipment $50,000.

ALLENTOWN, PA.—The Lehigh County Commissioners have awarded the contract for enlarging the Lehigh County jail to the VAN DORN IRON WORKS CO., of Cleveland, Ohio, at about $134,000.

PITTSBURG, PA.—We are officially advised that the RAYMOND CONCRETE PILE CO., 71 Nassau St., New York, has secured the contract for the concrete pile foundations of the South Side Carnegie Library, at 22d and Carson Sts., Pittsburg. Alden & Harlow, Farmers Bank Bldg., are Archs., and W. F. Trimble & Sons, 1719 Greenwood Ave., Pittsburg, the general contractors.

PHILADELPHIA, PA.—The Southwark National Bank has commissioned Seymour Davis, and Paul A. Davis, 1600 Chestnut St., to prepare plans for the erection of a new banking house on the site of the present structure at 610 South Second St., at a cost of $100,000. The plans, which are now being prepared, call for the erection of a 1-story structure with a balcony. The exterior will be constructed of granite. In addition to the present lot, a part of the adjoining property, which the bank recently bought, will be used for the site, the whole giving a lot measuring 25 × 125 ft. As soon as the plans are completed, which will be early in January, estimates will be invited from contractors, the contract awarded and work started in the spring.

*WILMINGTON, DEL.—Bids are asked by the Light House Engineer, Wilmington, until 11 o'clock a. m., Jan. 25, for furnishing the metal work of the foundation of the lighthouse at Miah Maul Shoal Light-Station, Delaware Bay, N. J.

BALTIMORE, MD.—Twenty-one bids were received Jan. 3 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for the installation of iron gates and guards at the Baltimore custom house. The lowest bid was submitted by the Van Dorn Iron Works, Cleveland, Ohio, at $1,656.

*FORT MONROE, VA.—Bids are asked by Capt. Ernest R. Tilton, Constr. Q. M., until 10 a. m., Feb. 7, for construction of one set field officers', five double sets captains,' one double set lieutenants' quarters and three double sets non-commissioned staff officers' quarters.

BLUEFIELD, W. VA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 14, for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office and court-house at Bluefield.

CHARLESTON, W. VA.—Ruffner Bros., of this city, whose wholesale grocery house has been destroyed by fire, contemplate the immediate erection of a 10-story fireproof building to replace the old one.

GRAYSON SPRINGS, KY.—Mercke Bros. will have plans prepared by McDonald & Dodd, Lincoln Bank Bldg., Louisville, Ky., for erection of brick hotel, to have 300 rooms, steam heat, electric lighting, electric elevators and laundry. Cost, $150,000. The structure will be erected in the summer.

CLEVELAND, OHIO.—Plans have been completed by Edward H. Dornette, Arch., Pickering Bldg., for a school building on Linn St., to contain boys' and girls' play room, manual training and domestic science rooms, auditorium, 27 class rooms and museum, for the Board of Education, William Grautman, Clk., 910 Main St. The structure will have four stories and will be 200 × 335 ft., of press brick, Bedford stone, terra cotta.

Hubbell & Benes, Archs., Citizens Bldg., have completed plans for the superstructure for the West Side Market House for the Board of Public Service. W. J. Springborn, Pres. The market will cost $300,000.

COLUMBUS, OHIO.—Bids are asked until 3 p. m., Feb. 18, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for construction of an extension, remodeling, etc., except elevators and lift, of the U. S. post-office and court-house at Columbus.

INDIANAPOLIS, IND.—Foltz & Parker, Indiana Pythian Bldg., have completed plans and will receive bids for a 4-story society building, 100 × 195 ft., for the Y. M. C. A., to be built of hard brick, Bedford stone and terra cotta or exterior tile. W. H. Godard is Secy. Cost, $250,000.

ANDERSON, IND.—Bids are asked by R. R. Daggett & Co., Lemcke Bldg., and Dunlap & Glossop, Archs., State Life Bldg., both of Indianapolis, until Feb. 1, for erecting a 2-story high school building, 165 × 200 ft., for the School Board, Anderson. Estimated cost, $125,000.

DETROIT, MICH.—George W. Graves, Cleland Bldg., is preparing plans for a 3-story club house, also a 16-ft. dock around club house, at Belle Isle Park, for the Detroit Motor Boat Club, C. W. Kotcher, Commodore.

BLUE ISLAND, ILL.—The Commisisoners o Cook County contemplate the erection of an infirmary building, three miles southwest of Blue Island, Ill., the cost of which is estimated at $1,000,000. Plans will be prepared by H. W. Huehl, County Arch., 163 Randolph St., Chicago. Wm. McLaren is Supt. Pub. Service.

CHICAGO, ILL.—C. A. Eckstorm, 131 La Salle St., has let mason contract to HENRY ERICSSON, 84 LaSalle St., for a 12-story brick, stone, terra cotta and steel mercantile building, 62 × 100 ft., at the corner of Madison and Market Sts., for Edwin S. Hunter. Cost, $300,000.

LA CROSSE, WIS.—Bids are asked until Feb. 18, by the State Board of Normal Regents, at Madison, Wis., for erection of a normal school building at La Crosse, to cost $200,000. J. A. Peacock is Pres. Bd., Oconomowoc, Wis.; Van Ryn & De Gelleke, 211 Grand Ave., Milwaukee, are Archs.

ST. PAUL, MINN.—The Minnesota Historical Society will build a building in this city. It will be two or three stories high of cut stone construction. Warren Upham is Secy. of the Society, St. Paul. Cost, $150,000.

HELENA, MONT.—It is stated that A. Von Herbulis, Kellogg Bldg., Washington, D. C., has submitted plans to Rt. Rev. J. P. Carroll, Helena, Mont., for a cathedral, high school building and a House of Good Shepard. The cathedral will cost over $300,000.

ST. LOUIS, MO.—The Rev. John Joseph Glennon, Archbishop of St. Louis, Mo., is having plans for a Roman Catholic Cathedral to cost $2,000,000, prepared by Barnett, Haynes & Barnett, Archs., Frisco Bldg., St. Louis. The structure will be built of brick, stone, terra cotta and reinforced concrete.

COLORADO SPRINGS, COLO.—Dr. D. H. Rice and Carl Chamberlain, Colorado Springs, and Tyson S. Dines, Denver, Trustees of the Winfield Scott Stratton estate, will consider plans for the Myron Stratton Home for the Poor soon. Stratton's will provided for an expenditure of $1,000,000 for suitable buildings. Work may begin next summer.

ALBUQUERQUE, N. MEX.—Bids were received as follows Jan. 3 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Albuquerque: Alfred W. Hayden, Albuquerque, N. Mex., $142,325; J. H. Wiese, South Omaha, Neb., $100,000; Frank Damascio, Denver, Colo., $134,915; 24 months. Time to complete, June 1, 1909.

SEATTLE, WASH.—Frank P. Allen, Jr., Dir. of Works, Alaska-Yukon-Pacific Exposition, Seattle, writes us that bids are being taken for construction of the Agricultural Building. In the near future bids on the Fisheries, Mining and Transportation Buildings will be asked for. Other buildings will follow as rapidly as plans are completed.

SEATTLE, WASH.—Somervell & Cote, Walker Building, it is stated, have completed plans for the hospital which the Sisters of Providence propose erecting at 17th and 18th Aves. and Cherry and Jefferson Sts., at a cost of about $800,000.

PORTLAND, ORE.—Bids are asked until noon, Jan. 21, by the Light House Engineer, Portland, for erecting a fog-signal building at Ediz Hook Light Station, Wash.

EUREKA, CAL.—It is stated that work on the construction of the proposed Federal building to be erected at the corner of Fifth and H Sts., in which will be located the post-office, the offices of the Collector of Port, quarantine physician and other Federal officers, will be commenced early next spring. The Government has appropriated the sum of $130,000, of which $15,000 has been expended for a site, leaving $115,000 for the structure, and has called for plans, etc., which are now being prepared. James Knox Taylor is Superv. Arch., Treasury Dept., Washington, D. C.

SAN JOSE, CAL.—Bids are asked until Jan. 27, by the City Council for repairing and reconstructing the City Hall. William Binder, Auzerais Bldg., and T. Lenzen & Sons, 119 South Second St., are Archs., San Jose.

OAKLAND, CAL.—C. M. MacGregor, of this city, will erect a 300-room apartment house at the corner of Ninth and Oak Sts. at a cost of $125,000. The plans for the building are not yet completed in detail.

Plans have just been completed for a 5-story Y. M. C. A. building and basement to occupy 84 feet on Telegraph Ave. and 160 ft. on 21st St. The building is to cost $250,000. W. A. Horn is Gen. Secy.

COQUITLAM, B. C.—The Provincial Government is having plans made for a provincial asylum, to be erected here at a cost of $200,000. F. J. Fulton is Provincial Secy., Victoria, B. C.

WATER SUPPLY—IRRIGATION.

(* *denotes that this work is advertised in Engineering News.*)

MEXICO, ME.—The Mexico Water Co. has been incorporated with a capital stock of $50,000. The purpose of the company is to furnish Mexico with water for domestic, fire and sanitary uses. Burton W. Goodwin, Mexico, is Pres.

*MARION, MASS.—Bids are asked until 7 p. m., Jan. 15, by the city for furnishing cast-iron water pipes, special castings, hydrants, water gates and gate boxes. Louis E. Hawes, Marion, is Engr.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Jan. 22, by John H. O'Brien, Comr. of Water Supply, Gas and Electricity, for furnishing, delivering and laying the salt water intake and suction mains for the high pressure fire service station, Furman and Joralemon Sts., Borough of Brooklyn; for furnishing, delivering and installing hand traveling cranes at the high pressure fire service stations, Borough of Brooklyn.

VERONA, N. Y.—This borough voted on Dec. 31 in favor of issuing $55,000 of bonds for the installation of a water plant.

STAATSBURG, N. Y.—We are officially advised that bids will soon be asked by the Staatsburg Water Co., Staatsburg, for three miles of piping, dam for reservoir, etc. B. H. Brevoort, 54 Market St., Poughkeepsie, N. Y., Engr.-in-Charge.

DUNMORE, PA.—The Council has granted the franchise to the City Water Co. to establish a water system here. W. T. Boland is Pres. City Water Co.

BALTIMORE, MD.—A reservoir to cost $5,000,000 may be built here, with average daily flow of 230,000,000 gals. B. F. Fendall is City Engr.

MAXTON, N. C.—The citizens have voted to have constructed a water-works system to cost $50,000. J. M. Bardy, Laurinburg, is Engr. F. L. Black is City Clk.

BENNETTSVILLE, S. C.—The city will issue about $35,000 of bonds for the construction of water-works.

WAYCROSS, GA.—A $100,000 bond issue for extending water mains has been voted by the city.

FERNANDINA, FLA.—The city will have a water main laid from Chester St. to Old Town. Bids are asked until Jan. 15. G. L. Baltzell is City Clk.

FORT BARRANCAS, FLA.—Bids are asked in triplicate by Lieut. A. L. Rhoades, Q. M., U. S. A., until 11 a. m., Jan. 24, for constructing a 200,000-gal. reinforced concrete reservoir.

HEADLAND, ALA.—The city has voted $23,500 of bonds for the construction of water-works and electric-light plant.

HOMER, LA.—The city has awarded the contract to O'NEIL ENGINEERING CO., M. Griffin O'Neil, Pres., Dallas, Tex., for the construction of a water-works system, at about $40,000.

MOREHEAD, KY.—The city contemplates the construction of a water-works system. Estimated cost, about $15,000.

BELLEFONTAINE, OHIO.—The State Board of Public Works contemplate improving the Lewiston reservoir. Estimated cost, about $50,000. J. C. Wonders is Engr. Bd.

TOLEDO, OHIO.—Conduits will be built by the city from the filter plant to the water-works pumping station. Frank I. Consaul is Ch. Engr. Bd. Pub. Ser.

EVANSVILLE, IND.—Bids will soon be asked by the Commissioners of Vanderburg County for the drainage of Big creek, McAdoo Creek and the south fork of Big Creek.

SPRINGFIELD, ILL.—We are officially advised that the contract for changing the course of Spring Creek has been awarded by the City Council to ROWAN & ASCHAUER, at 28 cts. per cu. yd.

KENOSHA, WIS.—The Board of Water Commissioners has decided to have a new intake pipe constructed. Estimated cost, $100,000.

The Water Department will purchase a new horizontal, compound pumping engine of 6,000,000 gals. in 24 hours. R. H. Moth is Supt. W.-Wks.

MEDFORD, WIS.—The citizens voted on Dec. 24 in favor of issuing $30,000 of bonds for a water-works system.

SAUK RAPIDS, MINN.—JAMES KENNEDY, Fargo, N. Dak., was awarded the contract on Dec. 27 by the Council for the installation of the water-works system, at $20,885.

ST. LOUIS, MO.—The West St. Louis Water & Light Co. may have 13 miles of pipe laid in the county and may erect two water towers, one to be located on Stratman Hill and the other near Normandy, Mo., each tower to be 65 ft. in diameter, about 125 ft. high and with a capacity of 750,000 gals.

BRONTE, TEX.—The city will have a water-works system constructed, water to be secured from the Colorado River, about three miles from here. G. H. Cumberland, City Engr., is preparing specifications and making surveys.

OKMULGEE, OKLA.—The city has awarded the contract to the O'NEIL ENGINEERING CO., M. Griffin O'Neil, Pres., Dallas, Tex., for rebuilding and increasing the water supply and distribution system for water-works.

HARDIN, COLO.—Two [illegible] will be constructed soon [illegible] his ranch near Hardin, at [illegible] The reservoirs are to be [illegible] ford and Eagle Nest. The [illegible] supply from the lower [illegible] the Platte River and will [illegible] waters of the Platte R[illegible] reservoir will have a cap[illegible] cu. ft. An inlet ditch [illegible] long, to cost $6,000, will [illegible]

GREELEY, COLO.—Su[illegible] Empire ditch, which take[illegible] Platte River in southeast[illegible] will be built the Empire [illegible] a capacity of 121 cu. ft. [illegible] mated cost, $3,000.

TACOMA, WASH.—The [illegible] received on Dec. 26 by the [illegible] Public Works for the instal[illegible] at Station A to raise 6,000 [illegible] Caldwell Bros. & Co. [illegible] 425-HP. motor), $6,315; [illegible] Co. (Jeansville pump with [illegible] $7,500; Puget Sound M[illegible] ington pump with 450-HP. [illegible]

KENNEWICK, WASH.—[illegible] will be installed at once in [illegible] tablished town of Wabluke[illegible] Columbia River Valley about [illegible] here, to raise water to irr[illegible] acres back of the town.

LOS ANGELES, CAL.—T[illegible] lic Works awarded the con[illegible] for furnishing air compre[illegible] abeth Lake tunnel, Los A[illegible] to the MACHINERY & E[illegible] 351 North Main St., Los A[illegible] Homer Hamlin is City Engr.

The Santa Susana Land, W[illegible] ment Co., recently incorpora[illegible] ital of $50,000, will take ov[illegible] the vicinity of the Vallette [illegible] park, on the coast line of the [illegible] cific Ry. Co., and are prepa[illegible] an extensive irrigation system [illegible] and for about 2,000 acres addi[illegible]

RED BLUFF, CAL.—The Thomes Creek North Side Irrigation Co. has filed articles of incorporation. The purpose for which the company is formed is to acquire and own water rights, dams, ditches, reservoirs, and right-of-way for appropriating and taking water from Thomes Creek for irrigation.

LAS VEGAS, NEV.—J. H. Lass, E. W. Griffeth and others have purchased the water rights of Whispering Pine Creek which flows normally about 400 inches of water. They are planning an irrigation and timber enterprise and will build a flume with the full capacity of the stream, to float timber as well as to irrigate. They will also build reservoirs to conserve the flood waters.

FORT WILLIAM H. SEWARD (Haines Post-office) ALASKA.—Bids are asked until 11 a. m., Jan. 22, by Maj. W. S. Wood, Quartermaster, U. S. A., Quartermaster's office, Seattle, Wash., for the construction of a water supply system at Fort William H. Seward, Alaska.

GUELPH, ONT.—The following estimates of projected civic works have been presented to the City Council by W. M. Davis, C. E.: Conduit, $67,943; reservoir, $8,418; stand pipe, $22,646; pumping machinery, $16,500. J. G. Lindsay is City Engr.

AYLMER, ONT.—This town will construct a 10-in. tile conduit from flowing wells 22-100 ft. away for the conveyance of water for the use of this town. Bids will be received at any time. J. Bradley is Town Clk.

MARKDALE, ONT.—The Town Council is considering installing a water-works system. Estimated cost, $19,500, with an annual revenue approaching $2,000.

VANCOUVER, B. C.—Bids will soon be asked by the Water Committee for building and laying four miles of continuous stave pipe from the Seymour creek intake to the canyon; material for the pipe to be supplied by the city. W. A. Clement is City Engr.

*MONTEREY, N. L., MEX.—Bids are asked at once by the Monterey Water-Works & Sewer Co., Ltd., 161 Matamoros St., Monterey, for the construction of about 3,000 lin. meters of 42-in. internal diameter concrete conduit extending from San Gerónimo to the Obispado reservoir, including excavation and all other work incidental thereto, and for the lining and roofing of two reinforced concrete service reservoirs, each of 10,000,000 gals. capacity for the Estanzuela and San Geronimo supplies. G. R. G. Conway is Ch. Engr. Monterey Water-Works & Sewer Co., Ltd.

SEWERAGE.

HARTFORD, CONN.—We are officially advised that the following bids were received on Dec. 30 by the Board of Contract and Supply for the construction of Sewer "B" of the Homestead Ave. intercepting sewer. (A) brick, (B) concrete: Hartford Paving & Construction Co., 703 Main St., Hartford, (A) $53,010, (B) $59,210; Falvey & Kelley, Dorchester, Mass., (A) $57,412, (B) $60,912; A. W. Bryne, Boston, Mass., (A) $56,850, (B) $54,250; F. B. & W. H. O'Neil, (A) $55,000; A. B. Griswold, 46 Prospect St., New Britain, Conn., (A) $42,075, (B) $43,475; William T. Ryan, New Haven, Conn., (A) $50,500, (B) $44,900; Hassan Paving Co., Worcester, Mass., (A) $96,399, (B) $90,799; Hunting Construction Co., Flushing, L. I., N. Y., (A) $56,750, (B) $51,150; Coughlan & Shells Co., 104 Hanover St., Boston, Mass., (A) $83,525, (B) $80,325; Charles G. Craib Co., Winthrop, Mass., (B) $72,850; John F. Gill Co., Winter Hill, Mass., (A) $61,250, (B) [illegible]930; John E. Palmer, 79 Journal Bldg., Boston, Mass., (A) $57,425, (B) $53,225; Russell Contracting Co., 456 Fifth Ave., New York City, (A) $85,405, (B) $73,925.

MILLVILLE, N. J.—The Council has decided to erect a sewage disposal plant.

WASHINGTON, D. C.—The District Commissioners have provided $25,000 for service sewers in First St., Southwest, V St., Southwest, and other streets.

NORFOLK, VA.—The Seventh Ward Local Board, J. D. Hank, Secy., has petitioned the Finance Committee of the Council to approve an appropriation of $50,000 for contemplated sewer construction in the Seventh Ward.

BENNETTSVILLE, S. C.—The city will issue about $25,000 of bonds for the construction of a sewerage system.

ST. PETERSBURG, FLA.—The city voted on Dec. 31 in favor of the issuance of $5,000 of bonds for sewer extension.

ENSLEY, ALA.—C. M. BURKHALTER & CO. have been awarded the contract for constructing 1,700 ft. of storm water sewers, at about $9,000.

CHATTANOOGA, TENN.—The Council has appropriated $30,000 for constructing sewers in Chestnut St. Robert Hooke is City Engr.

LOUISVILLE, KY.—Plans are being prepared for the construction of a sewer, known as Sec. B of the southern outfall sewer. Estimated cost, $4,000,000. C. P. Weaver is Secy. Bd. of Sewerage Comrs.

*LOUISVILLE, KY.—We are officially advised that the following bids were received on Dec. 17 by the Commissioners of Sewerage for the construction of Section "B" of the Southern Outfall Sewer Contract No. 2: T. B. JONES & CO., St. Louis, Mo., $296,524 (awarded contract); Henry Bickel, Louisville, $296,681; E. H. Abadie & Co., Times Bldg., $332,674; Kirshener Construction Co., Cincinnati, Ohio, $370,175; Westwater & Casey, Dublin Park, Columbus, Ohio, $385,070; New York Continental Jewell Filtration Co., 15 Broad St., New York, N. Y., $397,351; American Engineering & Construction Co., Chicago, Ill., $404,627; E. G. Nave Bro. & Co., Portsmouth, Ohio, $415,240; Irwin Bros., Greenville, Ohio, $416,393; Metropolitan Construction Co., 95 Milk St., Boston, Mass., $439,723; Luck Construction Co., Roanoke, Va., $522,306. The engineer's estimate was $353,145. Charles P. Weaver is Secy.-Treas. Comrs. Sewers. P. L. Atherton is Chn. Noted Dec. 26.

BEREA, OHIO.—Bids are asked until noon, Jan. 27, by the Village Council for the construction of a storm sewer. O. R. Stone is Clk. Village Council.

CANTON, OHIO.—Bids are asked until noon, Jan. 31, by the Board of Public Service for the construction of sanitary sewers in East Ninth St., from Hartford St. to Russel Ave., and in South Market St., from Graham Ave. to Lathrop St., in Lathrop St., from Market St. to Housel St., and in the first alley east of Market St., north and south from Housel St. B. F. Faust is Clk. Bd. W. E. Sarver is City Engr.

We are officially advised that the following bids were received on Jan. 3 by the Board of Public Works for the construction of a storm water sewer in East Fourth St.: Nelson & Young, Canton, $6,880; Berger & Crone, Massillon, Ohio, $10,803; John Skeeles, Canton, $6,441; Peter Barnes, Canton, $6,444; Burd & Rippeth, Canton, $8,973; Turnbull Bros., Canton, $7,557; William N. Perry, Canton, $7,311; George W. Oliver, Jr., Canton, $8,376; Frank A. Downs, Canton, $7,747. John Skeeles, Canton, will probably be awarded the contract. W. E. Sarver is City Engr.

*SPRINGFIELD, OHIO.—Bids are asked until noon, Jan. 24, by the Board of Public Service for the construction of that portion of the high level, intercepting sewer lying in Main St., between Walter St. and Western Ave., in Western Ave., between Main and Columbia Sts., in Columbia St., between Western Ave. and Light St., in Light St., between Columbia and North Sts., in North St., between Light and Factory Sts., in Factory St., between North and Main Sts., on the following approximate quantities. 2,096 ft. 24-in vitrified pipe, plain or reinforced concrete sewer; 5,554 ft. 30-in. vitrified pipe, plain or reinforced concrete sewer; 2,166 ft. 33-in. vitrified pipe, plain or reinforced concrete sewer; 9,376 ft. 6-in. pipe, house connections, average depth 10 ft.; 71 6-in. on 24-in. Y branches; 158 6-in. on 30-in. Y branches; 64 6-in. on 33-in. Y branches; 800 ft. 8-in. sanitary sewer; 50 ft. 18-in. sanitary sewer; 10 ft. 30-in. sanitary sewer; 32 round manholes, 4 ft. inside diameter, average depth 12 ft.; 8 single drop manholes; 1 double drop manhole; 1 regulator as per plan; 41 manhole covers and frames; 475 manhole steps; 115 cu. yds. Class A concrete; 17,875 cu. yds. rock excavation. W. H. Mahoney is Clk. Bd. W. H. Sieverling is City Engr.

SPRINGFIELD, OHIO.—CYRUS M. LONG, Springfield, was awarded the contract on Dec. 20 by Board of Public Service for the construction of the high level intercepting sewer, at $74,370. W. H. Sieverling is City Engr.

YOUNGSTOWN, OHIO.—The lowest bid submitted on Dec. 27 for the construction of the lower section Mahoning Ave. sewer was that of John Grady, at $13,102.

Gartland Bros. were the lowest bidders for the construction of the section of the Mahoning Ave. sewer under the viaduct and thence to the city limits at $12,701 with iron pipe across Mill Creek, and $10,468 with wooden pipe. F. M. Lillie is City Engr.

DELAWARE, OHIO.—The City Engineer has estimated the cost of constructing a storm water sewer between Winter and Central Aves. at $10,340.

INDIANAPOLIS, IND.—Plans are being prepared by C. A. Brown, Assistant City Engr., for the construction of a sewer in Harding St., North Indianapolis, with branches that will make the whole system more than a mile in length. The main line, a 4-ft. trunk sewer, will be in Harding St., from 30th to 32d St., with branches east and west. The total length will be 5,800 ft. and the branch sewers will be of pipe, from 10 to 15 inches in diameter. Estimated cost, $12,700. Blaine H. Miller is City Engr.

FT. WAYNE, IND.—Bids will soon be asked by the Board of Public Service for the construction of a main sewer. W. F. Becker is City Clk.

LAPORTE, IND.—Bids are asked until 7.30 p. m., Jan. 13, by Walter Baker, City Clk., for constructing a tile sewer in Chicago St.

LOGANSPORT, IND.—Plans are being prepared by F. G. Schmidt, City Engr., for the construction of a 3½-mile brick and pipe sewer. Estimated cost, $60,000. C. F. Hammontree is City Clk.

NORWAY, MICH.—A bond issue of $25,000 for constructing a trunk sewer has been authorized.

*WILMETTE, ILL.—Bids are asked until Jan. 24, by the Board of Local Improvements for the construction of a relief sewer system involving some five miles of sewer, both concrete and vitrified tile, concrete sewer ranging in size from six ft. to 30 ins. Charles N. Roberts, Reaper Block, Chicago, Ill., is Engr. E. P. Dunshee is Asst. Secy. Bd. Local Improvements.

MILWAUKEE, WIS.—The Board of Public Works awarded the contract on Dec. 23 for the construction of a sewer in Greenfield Ave., from Kinnickinnic Ave. to Barclay St., to I. SZUKALSKI at $8.95 per lin. ft. Charles G. Poetsch is City Engr.

ST. PAUL, MINN.—Bids are asked by the Board of Public Works, R. L. Gorman, Clk., until Jan. 9, for the construction of a gravity sewer system, called the Warrendale system, five miles long. Estimated cost, $60,000. L. W. Rundlett is City Engr.

TOPEKA, KAN.—Plans are being prepared by Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., for the construction of the Fifth Ward sewer.

WINFIELD, KAN.—THE MUNICIPAL CONSTRUCTION CO., Kansas City, Kan., has been awarded the contract for constructing lateral sewers in Dist. No. 2 at $5,400.

JOPLIN, MO.—The city has voted $96,000 of bonds for the extension of the sewerage system. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., have prepared the plans and specifications.

BONHAM, TEX.—The O'NEIL ENGINEERING CO., Dallas, Tex., has been awarded the contract for the construction of a sanitary sewer system in Bonham at about $20,000. M. Griffin O'Neil, Dallas, is Pres.

DENVER, COLO.—The Board of Public Works, G. E. Randolph, Pres., has adopted specifications for the construction of sewers in Sub-Dist. No. 11 of East Side sanitary sewer, Dist. No. 1. Estimated cost, $104,000.

OAKLAND, CAL.—Bids are asked until 10 a. m., Jan. 15, by Board Public Works, Walter B. Fawcett, Secy., for constructing an extension of the east side sewer from East Eighth St.

SELMA, CAL.—A. Shafer, City Engr., has submitted plans for the construction of a sewer system to the Town Trustees. Estimated cost, $49,579.

SANTA MONICA, CAL.—Bids are asked until 8 p. m., Jan. 13, by J. C. Hemingway, City Clk., for the construction of a vitrified pipe sewer main ten inches in diameter, in South Fifth St., from the center line of Hill St. northwesterly along South Fifth St., and over lot No. 52, Block A, Wavecrest tract, to the center line of Bay St.; thence westerly along Bay St. to the center line of that certain alley lying between South Fifth St. if prolongated and South Fourth St.; thence northwesterly along said alley to the center line of Fremont Ave., about 3,500 ft.

EDMONTON, ALTA.—R. R. Keely, City Engr., advises us that he is designing sewerage treating plants for this city. City now has three sewer outlets each of which take about an equal amount of sewerage at the present time. In two of these the amount of sewerage treated in the future will remain about constant, while in the third provision must be made for enlarging with the growth of the city. Concrete septic tanks and filter beds will be required. The city engineer desires to communicate with specialists in this line.

CHIHUAHUA, MEXICO.—Thomas S. Shepperd, Dir. Public Works, State of Chihuahua, advises us that "the plans for the proposed sewerage system in Ciudad Juarez are in the process of construction and that it is hoped to be able to advertise for bids some time during the months of February or March. It is necessary, however, for the approval of Congress before the final acceptance of these plans and this sometimes occasions long delays."

*MONTEREY, N. L., MEX.—Bids are asked at once by the Monterey Water-Works & Sewer Co., Ltd., 161 Matamoros St., Monterey, for the construction of about 12,000 lin. meters of main outfall sewer, varying in size from 36 ins. to 42 ins. in internal diameter, and constructed of concrete with an invert of brickwork, including the excavation of trenches, construction of tunnels, bridges, manholes, shafts, and all other work incidental thereto. G. R. G. Conway is Ch. Engr. Monterey Water-Works & Sewer Co., Ltd.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

PITTSBURG, PA.—James F. Edwards, Supt. of the Bureau of Health, is having plans prepared together with the estimates of the cost of installing a number of garbage and rubbish disposal plants for the city. The estimates of the cost of installing and operating these plants, together with the cost of municipal collection, will then be presented to councils before the appropriations for the year are made. The plans are being prepared by Rudolph Hering, 170 Broadway, New York City, and C. F. Drake, Pittsburg.

INDIANAPOLIS, IND.—The contract for the collection and disposal of the city's ashes and sweepings for 1908 has been let to GEMER & HENRY, at $30,400.

MILWAUKEE, WIS.—The Board of Estimate proposes to expend $200,000 for a municipal garbage plant, to have 150 to 200 tons daily capacity.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

SALISBURY, CONN.—The contract for the construction of 4,755 lin. ft. of macadam road with slag base in the town of Salisbury was awarded on Dec. 23 by James H. MacDonald, State Highway Comr., to the B. D. PIERCE, JR., CO., Bridgeport, Conn., at $2.17 per lin. ft. Other bidders were: Joseph Mascetti, Torrington, Conn., $2.45; John F. Gill Co., Boston, Mass., $2.88; the Pierson Engineering & Construction Co., Bristol, Conn., $3.00.

HARTFORD, CONN.—The Board of Street Commissioners has decided to repave Central Row from Main St. to the west side of the driveway to the U. S. post-office, and State St. from Main St. to the east line of the First National Bank Bldg., with sheet asphalt; also, American Row and State St. to Front St. and the remaining portion of American Row with granite block.

RIVERHEAD (L. I.), N. Y.—Blue prints of the proposed macadam road between Riverhead and Quogue were submitted on Dec. 30 to the Board of Supervisors by Julius Hauser, State Treas. Favorable action will probably be taken.

BUFFALO, N. Y.—The Council has directed that plans and specifications be prepared for repaving Rhode Island St., from Niagara St. to Richmond Ave. The following pavements have also been ordered: Carroll St., 26 ft. wide, with round edge shale brick, on concrete base, from the east end of grade crossing approach to Hydraulic St.; Exchange St., 42 ft. wide, with dressed block Medina sandstone, on concrete base, from Hamburg St. to Indian reservation line; Hamburg Turnpike, 42 ft. wide, with dressed block Medina sandstone, from bridge over Buffalo River to the north vamp of proposed viaduct over Buffalo Creek R. R. tracks. Francis G. Ward is Comr. of Pub. Wks.

ROCHESTER, N. Y.—The City Council has passed ordinances providing for paving the following streets: Atkinson St., estimated cost, $20,000; Benton St., $42,000; Mt. Vernon Ave., $23,000, and Arcade Alley, $2,800.

NEW BRUNSWICK, N. J.—The following contracts were awarded on Dec. 27 by the Board of Chosen Freeholders, Middlesex County, for the construction of stone and gravel roads:

Half Acre road, 17,660 ft., RUE & FOUNTAIN, Old Bridge, N. J., $9,289. Livingston Ave. extension, 5,910 ft., DELAWARE RIVER QUARRY & CONSTRUCTION CO., Lambertville, N. J., $10,288. Woodbridge Township road, 8,416 ft., JOHN F. SHANDLEY & CO., Newark, N. J., $12,800. Perth Amboy road, 7,148 ft., E. C. HUMPHREY & CO., Hackensack, N. J., $8,161. Raritan River road, 8,775 ft., DELAWARE RIVER QUARRY & CONSTRUCTION CO., $13,068. Woodbridge Main road, 9,200 ft., PFEIFFER & LIDDLE, Woodbridge, N. J., $16,123. Frank H. Pownall is Dir. Bd. Chosen Freeholders. M. Irving Demarest is Clk.

TRENTON, N. J.—The Council has passed ordinances authorizing the paving of Beatty St., from South Clinton St. to Whittaker Ave., and Columbus Ave. from Whittaker Ave. to Anderson St., with sheet asphalt. H. R. Salter is City Clk.

MECHANICSBURG, PA.—W. B. JOHNSON, Spring Grove, Pa., has been awarded the contract for constructing about two miles of state macadam road at $21,000.

ALLENTOWN, PA.—The Council has passed ordinances for paving and setting or resetting curb on Second St., from Hamilton to Telghman Sts. H. F. Bascom is City Engr.

DORRANCETOWN (Wilkes-Barre post-office), PA.—The following bids for paving were received on Dec. 23 by the Town Council: Dorrance St., B. G. Coon, Williams Grove brick, $2.26 per sq. yd.; Clearfield clay brick, $2.32 per sq. yd.; Pittsburg and Buffalo brick, $2.13 per sq. yd.; Porter brick, $2.30 per sq. yd.; Metropolitan brick, $2.37 per sq. yd.; catch-basins, 50 cts. each; inlets, $30 each; Waineright steel curb, 75 cts. per lin. ft.; red stone curb, 95 cts. per lin. ft.; red stone circular curb, $1.55 per lin. ft. Frank Kuss, Clearfield clay brick, $2.50 per sq. yd.; Williams Grove brick, $2.65 per sq. yd.; Waineright patented curb, $1 per lin. ft.; stone curb, $1.25 per lin. ft.; Waineright circular curbs, $1.25 per lin. ft. D. M. Rosser, Willow Grove brick, $2.40 per sq. yd.; Clearfield clay brick, $2.30 per sq. yd.; catch-basins, 60 cts. each; inlets, $25 each; Waineright steel protected curb, 80 cts. per lin. ft; plain concrete curb, 70 cts. per lin. ft.; White Haven red stone curb, 95 cts. per lin. ft.; Waineright steel protected circular curb, $1.20 per lin. ft.; plain circular curb, $1 per lin. ft.; White Haven stone circular curb, $1 per lin. ft. (work to be completed within 100 days). R. M. Rosser. Porter brick, $2.48 per sq. yd.; Williams Grove brick, $2.48 per sq. yd.; catch-basins, 90 cts. each; inlets, $45 each; red stone curb, 90 cts. per lin. ft.; Waineright steel concrete curb, 80 cts.; plain concrete curb, 60 cts. per lin. ft.; red stone circular curb, $2 per lin. ft.; concrete circular curb, $1.75 per lin. ft. (work to be completed within 100 days). James St.: D. M. Rosser, U. S. Creo-resinate wood block on 4-in. concrete base, $3.40 per sq. yd.; Waineright steel bound concrete curb, 80 cts. per lin. ft.; 24-in. concrete gutter, 55 cts. per lin. ft.; Waineright steel bound concrete circular curb, $1.20 per lin. ft. (to complete work within 90 days). B. G. Coons, U. S. Creo-resinate wood block on a 4-in. concrete base, $3.38 per sq. yd.; Waineright steel bound concrete curb, 74 cts. per lin. ft.; 24-in. concrete gutter, 49 cts. per lin. ft. (work to be completed within 40 days). William A. Atens is Chn. Town Council.

PHILADELPHIA, PA.—EDWIN H. VARE, Betz Bldg., Philadelphia, was awarded the contract on Jan. 7, by George R. Stearns, Dir. Pub. Wks., for (a) repairing and (b) re-surfacing macadam and country roads for the year 1908; (a) about $100,000, (b) about $125,000.

FREMONT, OHIO.—Geo. Kinney was the lowest bidder for paving Depot St. with Metropolitan block, at $6,300. George W. Lesher is City Engr.

ELYRIA, OHIO.—The city has authorized the following street improvements: Lake Ave. and West St., brick paving. Estimated cost, $80,000; East Broad St., brick paving, $30,000; East Fourth St., brick paving, $8,000. Bids will soon be asked. L. W. Griffin is City Engr.

NEWARK, OHIO.—Bids are asked until Feb. 1 by the Board of Public Service for approximately three miles of brick paving, with sandstone curb and gutter. C. H. Wells is City Engr.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service until noon, Jan. 10, for improving and repairing Warsaw Ave., from north line of Gest St. produced northwardly, by constructing a retaining wall on the east side thereof and restoring said avenue.

Bids are asked by the Board of Public Service until noon, Jan. 23, for grading, macadamizing, paving the gutters with brick, etc., Beechmont Ave. from Eastern Ave. to the Little Miami River. M. J. Keefe is Clk. Bd.

CADIZ, OHIO.—Resolutions for the improvement of Market, Warren and Grant Sts. by draining, curbing and paving with brick, have passed the Council. W. H. Lucas, is City Clk.

SANDUSKY, OHIO.—Bids are asked until 10 a. m., Jan. 18, for constructing a roadway over the Monroe St. concrete arch bridge together with approaches thereto. Charles Kubach is County Audr.

*RICHMOND, IND.—Bids are asked until 10 a. m., Jan. 24, by the Board of Public Works for cement walks, curb and gutters, and macadamizing roadway. Estimated cost, $20,000. Fred R. Charles is City Engr.

KOKOMO, IND.—Bids are asked until 2 p. m., Jan. 9, by the Comrs. of Howard County, for the construction of the following gravel roads in Center Township: The Goyer road, the O'Toole road, the Clark road, the Reed road, the Keck road, the Hanna road, the Garber road, the Blackledge road, and the Tate road, each less than three miles long. Each road must be bid for separately. Bids are also asked for the construction of a free gravel road on the boundary line between Center and Taylor Townships; a gravel road on the boundary line between Howard and Liberty Townships, known as the Shank road; a gravel road in Howard Township, known as the Clingman road, and eight gravel roads in Liberty Township, each road less than three miles in length and to be bid on separately. William L. Benson is County Audr.

MONTICELLO, IND.—L. T. KENT, Brookston, Ind., has been awarded the contract for constructing gravel road in Prairie Township at $15,119.

NOBLESVILLE, IND.—Bids are asked until Jan. 11, by the Boards of County Commissioners of Hamilton and Boone counties at Noblesville, for grading, draining and graveling two highways. N. W. Cowgill is County Audr., Hamilton County.

KNOX, IND.—Bids are asked by the County Commissioners until noon, Jan. 11, for the construction of the following gravel roads, including culverts, in Oregon and Davis Townships: The Groshans road, length 26,188 ft.; the Houck road, length 14,266 ft.; the Porter-Jack road, length 5,130 ft., and in North Bend and California Townships, the Lake Shore Drive road, length 13,758 ft. Lee M. Ransbottom is County Audr.

FORT BENJAMIN HARRISON (Lawrence post-office), IND.—C. C. KING & BRO., Indianapolis, Ind., have been awarded the contract for grading, pipe culverts, etc., at this post, at $6,544.

INDIANAPOLIS, IND.—Bids are asked until 10 a. m., Jan. 13, by the Board of Public Service for improving the following streets by grading and paving: Newman St., from Rosvelt Ave. to the railroad tracks, gravel; Arsenal Ave., from Roosevelt Ave. to 19th St., brick; Gray St., from New York to Michigan Sts., gravel; Julian Ave., from Downey to Ritter Aves., brick; Talbott Ave., from Fall Creek to 30th St., wooden blocks; Thirteenth St., from Meridian to Central Aves., wooden blocks; Colorado Ave., from Washington to Michigan Sts., brick; McCarty St., from Meridian to West Sts., brick; and for cement sidewalks in portions of Hall Place, Spruce St., Cornell Ave., Liberty St., Blackford St., Gray St., New York St., Julian Ave., Washington, Graham, Colorado Ave. and McCarty Sts., and for brick roadways in first alley west of Senate Ave. Blaine H. Miller is City Engr.

BLUFFTON, IND.—Bids will soon be asked by the Commissioners of Wells and Allen Counties for the construction of a gravel road on the line between the two counties.

NOBLESVILLE, IND.—Bids are asked by the Commissioners of Hamilton County until 10 a. m., Jan. 21, for the construction of two gravel roads in Marion and Adams Townships. Estimated cost, $7,000. N. W. Cowgill is County Audr.

DANVILLE, IND.—Bids are asked by the Commissioners of Hendricks County until 10 a. m., Jan. 20, for the construction and improvement of a gravel road in Clay Township, 7,921 ft. in length. David D. Mills is County Audr.

MUSKEGON, MICH.—Bids are asked by the Board of County Road Commissioners, Muskegon County, at office of County Clerk, until 10 a. m., Feb. 15, for furnishing and delivering crushed limestone or fieldstone (hard heads), f. o. b. at various railway stations.

PONTIAC, MICH.—Bids are asked until Feb. 1 for the construction of two miles of state reward gravel roads. George H. Fowler is Highway Comr.

SPRINGFIELD, ILL.—HENRY NELCH was awarded the contract on Dec. 30 by the Board of Local Improvements for laying the pavement in Spruce St. between First and Second Sts., at $1.48 per sq. yd. for paving and 50 cts. per lin. ft. for curbing. Frank H. Hamilton is City Engr.

BERWYN, ILL.—Bids are asked by O. B. Munger, Pres. Bd. of Local Improvements, until 8 p. m., Jan. 16, for constructing concrete sidewalks. Estimated cost, $9,261.

OTTAWA, ILL.—All bids have been rejected by the Board of Local Improvements for constructing 41,000 sq. yds. of brick pavement, with granitoid curbs, gutters and crosswalks. New bids will be asked. Charles F. Wilson is Secy. Bd.

MARSHALL, TEX.—John Wharton Maxcy, Binz Bldg., Houston, Tex., is preparing plans and specifications for street paving in Marshall. Estimated cost, about $220,000.

GUTHRIE, OKLA.—Bids are asked until Jan. 15, for paving, curbing, guttering and draining First St., about 4,400 sq. yds. paving and 1,600 lin. ft. curb; Noble Ave., about 36,000 sq. yds. paving and 16,000 lin. ft. curb and gutter; 3,000 lin. ft. plain curb, etc.; W. W. Miller is City Engr.

SEATTLE, WASH.—Frank P. Allen, Jr., Dir. of Pub. Wks., advises us that the roads and walks to be constructed for the Alaska-Yukon-Pacific Exposition will be macadam. This work will be started in May or June.

ANDREW PETERSON & CO., Washington Block, Seattle, were awarded the contract on Dec. 24 by the Board of Public Works for regrading 65th St. Northeast, at $69,380. R. H. Thomson is City Engr.

*ABERDEEN, WASH.—Bids are asked by P. F. Clark, City Clk., until 5 p. m., Feb. 19, for the dyking, estimated at 5,100 cu. yds., and filling, estimated at 1,458,200 cu. yds., of certain streets, alleys and lots in the city. Separate bids are required for dyking and filling. H. W. Troutman is City Engr.

MANUFACTURING PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

FRAMINGHAM, MASS.—Richard H. Long, of Framingham, has decided to establish a shoe machinery company and has incorporated under the laws of Massachusetts a shoe machinery company with a capital stock of $200,000. The capital stock is divided into 2,000 shares of common stock with a par value of $100 each. With Mr. Long are associated Charles F. Pooler and George G. Whittemore of Framingham and Stephen S. Taft, Jr., of Springfield. The officers of the company are to be as follows: Charles F. Pooler, Pres.; Richard H. Long, Treas.; George G. Whittemore, Clerk; the above and Stephen S. Taft Jr., Dirs.

DARLINGTON (Pawtucket post-office), R. I.—The J. W. BISHOP CO., 107 Foster St., Worcester, have the contract for a factory at Darlington for the Royal Weaving Co.

NEW YORK, N. Y.—Michael J. Garvin, 2307 Third Ave., has completed plans for shops, stable buildings, etc., for the Bureaus of Highways and Sewers. George F. Scannell and William J. Boyhan, Supts., respectively.

HARRISONBURG, VA.—W. E. Swank will establish transfer machine house, it is stated. A site, 150 × 40 ft. has been purchased, on which a 3-story building, constructed either of cement block or composition gray stone, will be erected. About $10,000 will be expended.

SUFFOLK, VA.—The Virginia Mills incorporated with $15,000 capital stock and privilege of increasing to $50,000 to operate meal and hominy mills, deal in grain, etc., will be erected and equipped at cost of $15,000, with a daily capacity of 2,500 bushels meal and hominy. W. W. Robertson, Citizens' Bank Bldg., Norfolk, is Pres.; W. E. Flournoy, of Norfolk, is Vice-Pres., and J. W. Simmons of Suffolk, Secy.-Treas. The company has purchased the plant of R. C. Barton.

CHARLESTON, W. VA.—The Kanawha Brick & Tile Co. will establish a plant for the manufacture of fine face brick, fire-brick and ornamental tile. The buildings will be erected and machinery installed at a cost of $25,000 to $30,000. J. W. Jenkins is Pres. and Mgr.; A. E. Wood, Engr-in-Charge.

FAYETTEVILLE, N. C.—Press reports state that Dr. J. P. Ewing, of Dillon, S. C., has bought from the Pemberton estate the old Phoenix Mill site on Cross Creek, not more than one-third of a mile from the business center, and will erect a large knitting mill.

BLACKSBURG, S. C.—We are officially advised that a company to erect and operate the Blacksburg Mills has been incorporated with capital stock of $250,000 and will build mill for manufacturing fine sheetings. Incorporators, G. Lang Anderson, of Williamston, S. C.; E. F. Pell, of Blacksburg, Andrew E. Moore, of Gastonia, N. C.; J. C. Plonk of Cherokee Falls, S. C., and J. E. Sirrine of Greenville, S. C. Mr. Sirrine will be Engr. to plan, build and equip plant. The structure will be of slow burning construction, 128 × 200 ft., and will cost $50,000; equipment, $125,000. Contracts will be let in the spring.

ASHBURN, GA.—The Shingler Cotton Mills, recently organized with a capital of $250,000, will erect mills here, it is reported. J. S. Shingler is Pres.

BAINBRIDGE, GA.—The Georgia, Florida & Alabama Ry. Co. will erect roundhouse, machine shop and power house and blacksmith shop. The roundhouse is to be of frame construction with six stalls; machine shop, frame, 60 × 90 ft.; power house and blacksmith shop, brick, 26 × 42 ft. Plans were prepared by Philip E. Robinson, National Bldg., Savannah, Ga., and Masonic Temple, Jacksonville, Fla.

BALL GROUND, GA.—The Ball Ground Cotton Mills organized with A. J. Lovelady, President; C. M. Wofford, Vice-Pres., and Frederick A. Abbott, Gen. Mgr., will build a plant of 10,000 spindles and 300 looms to manufacture 2.40 indigo denims, 2.40 drills or 8-ounce duck. The main building is to be two stories high, with dormer roof, 75 × 320 t.; picker room, 32 × 70 ft.; dye house, 75 × 90 ft.; engine and boiler rooms, 40 × 40 ft. each. All will have concrete foundations. Machinery has not been contracted for.

MACON, GA.—Contract has been let by Frank R. Happ, Arch., Exchange Bank Bldg., Macon, to R. H. SMALLING & SONS, for construction of a laundry building for the Crescent Laundry Co.; cost, $16,000.

CALHOUN, GA.—The Echota Cotton Mills will be built here. The plant will be of brick construction, 127 × 360 ft., with a power plant of 400-HP. F. D. Milstead, of Ludwig & Co., Empire Bldg., is Engr. T. W. Harbison is Pres. Echota Cotton Mills.

FERNANDINA, FLA.—The Seaboard Air Line Ry. Co., has awarded contract to BURWELL & HILLYER, of Jacksonville, and F. A. VON EBSTEIN, Savannah, Ga., for structural work on phosphate elevator, capacity, loading 2,000 tons per day; $75,000 has been appropriated. Work will begin soon. W. L. Seddon, Portsmouth, Va., is Ch. Engr.; A. G. Bagnell is Engr. in charge.

QUINCY, FLA.—The Gadsden Sumatra Tobacco Co. will erect buildings and make improvements at a cost of about $30,000. B. H. Hardaway is Pres.; W. M. Manly, Mgr.

CHATTANOOGA, TENN.—The Safety Car Coupler Co., of this city, has applied for a charter with a capital of $100,000. The incorporators are A. W. Boyd, John Shamotulski, M. A. Brown, R. B. H. Leighton and D. J. Sauls.

NEW CUMBERLAND, OHIO.—Michael Owens, of Toledo, Ohio, is interested in establishing a glass plant in Hancock County, near New Cumberland, where there is a supply of natural gas and glass sand.

CINCINNATTI, OHIO.—The M. B. Farrin Lumber Co. is taking sub-bids on constructing a brick and iron planing mill and lumber yard addition at Winton Pl., where its present plant is located. Cost, $50,000.

AKRON, OHIO.—A factory is to be built by the Akron Extract & Chemical Co., the construction of which will be started early in the spring. The plans call for a building 200 × 400 ft., of brick construction, three or four stories high.

HAMILTON, OHIO.—The J. F. BENDER BROS. CO., Dayton and Lowell Sts., will start work soon erecting a brick manufacturing plant addition on Central Ave. for the Columbia Carriage Co., 1316 Central Ave. Estimated cost, $10,000.

MORRISTOWN, IND.—The Naomi Canning Co., of Edinburg, is preparing to receive bids for construction of a factory at Morristown.

BUTTERNUT, MICH.—Regarding the construction of a foundry, E. E. Filkins, Mgr., of the Isham-Miller Co., Inc., Butternut, writes us: "As yet cannot say where we will locate the new plant. We expect that the building and equipment will cost about $10,-000. Will not let any contracts until we know where we are going to locate."

KALAMAZOO, MICH.—The Kalamazoo Stove Co. is reported to be contemplating erecting an addition to its present plant. W. H. Thompson is Pres.

CHICAGO, ILL.—Joseph Downey, builder, 1046 Stock Exchange Bldg., 108 La Salle St., will erect a manufacturing building at the northeast corner of Washington and Green Sts. next spring, it is stated. It will be 8-stories, 100 × 100 ft., probably of mill construction, with pressed brick, iron and plate glass fronts, composition roof, steam heat, wiring for light, and will cost about $100,-000. E. A. Hogenson, 264 North Hoyne Ave., probably will make the plans. M. F. Powers, office with the owner, will have charge of the work. The mason and carpenter work will be done by the day.

Mr. Downey has under consideration the construction of either a 12-story high-grade manufacturing building, 81 × 81 ft., or a 12-story store and office building, at the northeast corner of Washington and Franklin Sts., to cost approximately $200,000 and $250,000. The site is occupied by an old 4-story hotel.

HARVARD, ILL.—Bids are asked until Jan. 14 by the Harvard Packing Co., for building a 2-story slaughter house, 20 × 80 ft., at Harvard. Daniel Hereley is Pres.

ROCK ISLAND, ILL.—JOHN VOLK & CO., this city, have been awarded the general contract, at $27,917, for erecting a 3-story publication and printing plant for the Modern Woodmen of America. C. W. Hawes is Head Clerk; George P. Stauduhar, 320 20th St., Rock sland, is Arch.

ST. PAUL, MINN.—Herman Kretz & Co., Archs., New York Life Bldg., St. Paul, are preparing plans for rebuilding the Pabst Brewing Co.'s building on Third and Wabasha Sts. Estimated cost of structure, $22,-000.

MINNEAPOLIS, MINN.—The CONGDON CONSTRUCTION CO. has the contract, at $10,750, for improvements and addition to boiler room at the Soldiers' Home.

KANSAS CITY, MO.—Plans are being prepared for a factory for the Edgar Mfg. Co., 310 West 20th St., Kansas City. E. B. Nebbleton is Pres. Cost, $20,000.

ST. LOUIS, MO.—The National Brewery Co., 18th and Gratiot Sts., is having plans prepared by E. C. Janssen, Chemical Bldg., for erection of boiler house and washhouse, to be two stories high. The former is to be of brick, stone and reinforced concrete and cost $20,000, and latter of brick and reinforced concrete, costing $15,000.

VAN BUREN, ARK.—W. H. H. Shibley is interested in establishing a box factory in Van Buren to cost about $50,000.

IMBODEN, ARK.—It has been decided to rebuild the mill and warehouse of the Imboden Milling & Mfg. Co., which were recently destroyed by fire at a loss of $60,-000.

ORANGE, TEX.—The Key Lumber Co., which recently purchased sawmill and timber lands near Orange, will erect buildings and install machinery at a cost of about $18,000. The plant will have a capacity of about 30,000 ft. yellow pine lumber daily. J. D. Key is Mgr.

CLAIREMONT, TEX.—John A. Wyshard, H. J. Budd, Knoxville, Iowa; A. J. Van Allstine, Omaha, Neb., and R. C. Lomax, of Fort Worth, Tex., are interested in developing 150,000 acres of cement lands in Kent County and contemplate establishing a cement plant which will cost about $1,000,000. A pony plant is now in operation and about 160 sacks of cement are prepared daily.

OKLAHOMA CITY, OKLA.—The Oklahoma Carriage Co. is planning to erect a 2-story brick or concrete building, 75 × 130 ft., it is stated, to cost about $20,000.

CANON CITY, COLO.—The Diamond Fire Brick Co., Canon City, has decided to increase its capital from $60,000 to $150,000, and to improve and enlarge its plant.

SPOKANE, WASH.—Press reports state that Newton C. Gauntt is interested in erecting an automobile factory to cost about $100,000. The Perfection Automobile Co., North Yakima, Wash., is interested.

HANFORD, CAL.—Nathan Cole, Jr., of Los Angeles, Cal., and H. C. Merrett, of Pasadena, Cal., contemplate establishing a beet sugar factory here.

LOS ANGELES, CAL.—The Oil Well Supply Co., 213 Water St., Pittsburg, Pa., has secured a lease for a term of years of a site on North Main St., and will have plans prepared at once for erection of a plant for manufacturing of well tools. Details will be decided as the plans progress. R. H. Herron is local Mgr.

MISCELLANEOUS CONTRACTS.

(* *denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

DOCK.—Detroit, Mich.—See under Buildings.

TUNNEL.—Boston, Mass.—See under Light and Power.

*CABLE RAILWAYS, ETC.—Panama.—See under U. S. Possessions and Cuba.

*DREDGING.—Norfolk, Va.—Bids are asked until noon, Jan. 29, by Maj. Joseph E. Kuhn, Corps Engrs., U. S. A., for dredging harbor at Cape Charles City, Va.

*DREDGING.—Wilmington, Del.—Bids are asked until 11 a. m., Feb. 6, by Major C. A. F. Flagler, Corps Engrs., U. S. A., for dredging Mispillion River, Del.

DITCH.—Grand Rapids, Wis.—Bids are asked until Jan. 11 by the Board of Public Works for constructing a ditch, 4,700 ft. in length. W. E. Wheelan is Clk.

MONUMENT.—Terre Haute, Ind.—The Vigo Soldiers Monument Asosciation is planning for the erection of a Soldiers' Monument in this city. Estimated cost, $20,000.

*WOODEN HULL.—Montgomery, Ala.—Bids are asked until noon, Feb. 1, by Capt. H. B. Ferguson, Corps Engrs., U. S. A., for constructing one creosoted wooden hull.

*REVETMENT.—Grand Rapids, Mich.—Bids are asked until 3 p. m., Feb. 5, by Maj. Charles Keller, Corps Engrs., U. S. A., for construction of sheet pile revetment at Muskegon Harbor, Mich.

*EXCAVATION, ETC.—Nashville, Tenn.—Bids are asked until 11 a. m., Feb. 10, by Maj. Wm. M. Harts, Corps Engrs., U. S. A., for excavation, riprap and paving at Colbert Shoals Canal, near Riverton, Ala.

BULKHEAD.—Fort Terry, N. Y.—Bids are asked until Jan. 27 by Capt. William E. Horton, Q. M., U. S. A., New London, Conn., for furnishing material and constructing 360 ft. timber bulkhead at Fort Terry.

REMOVING COLUMNS.—Brooklyn, N. Y.—Bids are asked by James W. Stevenson, Comr. Bridges, until 2 p. m., Jan. 16, for removing columns at Sands and Washington Sts., Boro. of Brooklyn, Brooklyn Bridge.

RETAINING WALL.—Kansas City, Mo.—The American Linseed Oil Co. has awarded contract to URBAN CONSTRUCTION CO., Dwight Bldg., for construction of reinforced concrete retaining wall, to cost about $7,000.

*CANAL.—Albany, N. Y.—Bids are asked until noon, Jan. 31, by F. C. Stevens, Supt. Public Works, for improving the Erie Canal, Section 10, from .164 miles east of Eagle Harbor bridge to .09 miles west of Beal's bridge. Length of contract, 5.682 miles.

REVETMENT.—National Soldiers Home, Va.—Bids are asked by John T. Hume, Treas., Southern Branch, N. H. D. V. S., National Soldiers' Home, Va., until 1.30 p. m., Jan. 27, for furnishing all material and labor for constructing a timber revetment.

*FILLING.—Aberdeen, Wash.—Bids are asked by P. F. Clark, City Clerk, until 5 p. m., Feb. 19, for dyking, estimated at 5,100 cu. yds., and filling, estimated at 1,458,200 cu. yds., certain streets, alleys and lots in the city. H. W. Trautman is City Engr.

DUMP AND FILL.—New York, N. Y.—Bids are asked until noon, Jan. 13, by J. A. Bensel, Comr. of Docks, for the right to dump and fill in behind the bulkhead wall recently built or to be built on the northerly part of the new Bellevue section on the East River, Boro. of Manhattan.

DUMP LEASE.—New York, N. Y.—Bids are asked by J. A. Bensel, Comr. Docks, until noon, Jan. 15, for a lease for a term of five years, beginning on a date ten days after said lease shall be approved by the Commissioners of the Sinking Fund, of the right to use and occupy the inshore or most easterly dump on the northerly side of the pier at the foot of West 30th St., North River, Boro. of Manhattan, together with the right to use the ramp or approach thereto.

CLEANING DITCH.—P[illegible]on, Ill.—Bids are asked until Jan. 15 [illegible] Commissioners of Union Special D[illegible] District of the towns of Fairfield, G[illegible] and Gold, County of Bureau, at the [illegible] of George S. Skinner, Attorney, Prin[illegible] for cleaning out the main ditch in said [illegible], requiring the removal of about 60,[illegible] yds. material.

CRANES, SUPPLIES.—[illegible]ork, N. Y.—Bids are asked until 2 p[illegible] Jan. 22 by John H. O'Brien, Comr. [illegible] Supply, Gas and Electricity, for inst[illegible] hand cranes at the high-pressure fire [illegible] stations, Brooklyn; lumber, brass [illegible]sition castings, brick, cement, fire[illegible], fire clay, bar iron, machinery steel [illegible] steel and tolin bronze.

DRAINS.—Jefferson, Iow[illegible] were received on Dec. 27 by E[illegible] County Audr., Jefferson, for furni[illegible] material and constructing county drains [illegible] 23 and 10. C. P. Walker is Chn. B[illegible]pervs. Contracts were awarded to [illegible] McGREGOR CO., Berkley, Iowa, an[illegible] MODERN CONSTRUCTION CO., Gra[illegible]tion, Iowa. Total cost, $10,988.

REMOVING WRECK.—[illegible] Mass.—Bids were received by Major E[illegible] Burr, Corps Engrs., U. S. A., on Dec [illegible] removal of wreck of steamship "City [illegible]mingham," lying in Upper Main Ship [illegible] of Boston Harbor. They were as foll[illegible] Boston Towboat Co., Boston, U. S. to [illegible] bidder $20,-000; Boston Commission M[illegible] Co., Boston, bidder to pay U. S. $1[illegible] Bids were rejected.

DEEPENING CREEK.—P[illegible]tstown, Ill.—Bids are asked until Feb. [illegible] the Drainage Commissioners of th[illegible] Union Special Drainage District, of Ta[illegible] Prophetstown and Hume, at the [illegible] of F. W. Sears, Engr., Prophetstow[illegible] deepening and widening Coon Creek L[illegible] No. 1 in said Drainage District, requiring the removal of about 250,000 cu. yds. mat[illegible] also, same time and place, for three [illegible] of work in Lee County, not yet surveyed, requiring the removal of about 50,000 [illegible] material; said work being a continuation of Coon Creek Line No. 1, three mi[illegible] farther east.

*DREDGE.—Portland, Ore.—Bids were received as follows on Dec. 2[illegible] by Lieut.-Col. S. W. Roessler, Corps Engrs., U. S. A., for constructing one wooden hull hydraulic dredge—(A) Grand total; (B) Months required to complete; (C) Place of delivery: John Wood Iron Works Co., Portland, (A) $87,60[illegible], (B) eight, (C) Portland; North American Dredging Co., San Francisco, Cal., (A) $96,-608, (B) eight, (C) Aberdeen, Wash., or Portland; Portland Iron Works, Portland, (A) Iron & Steel Works, Portland; Willamette Iron & Steel Works, Portland, $85,140, (B) eight, (C) Portland; The Moran Company, Seattle, Wash., (A) $98,427, (B) eight, (C) Seattle, Wash.

STEAMBOAT.—Portland, Ore.—Bids were received as follows by Lieut.-Col. S. W. Roessler, Corps Engrs., U. S. A., on Dec. 20 for construction of one stern-wheel steamboat—(Government specifications) (A) Boat complete; (B) Hull and house; (C) Machinery. (Bidders' specifications) (D) Boat complete; (E) Machinery; (F) Days required to complete; (G) Estimated cost of boat complete: Joseph Supple, Portland, (B) $27,600, (F) 190; Theodore Knudson & C. L. Stoneburg, Portland, (B) $23,550, (F) 120; Willamette Iron & Steel Works, Portland, (A) $55,245, (C) $32,745, (D) $52,245, (E) $29,745, (F) 180, 60, 180 and 60, (G) $60,000; Portland Iron Works, Portland, (A) $59,650, (C) $36,100, (F) 190 and 60; Phoenix Iron Works, Portland, (C) $32,000, (F) 60; Smith & Watson Iron Works, Portland, (C) $32,850, (F) 90.

*MARGINAL CONDUIT.—Boston, Mass.—On account of change in the location of the gate-chamber, requested by the Boston Transit Commission, the opening of bids advertised for Jan. 6, for the gate-chamber at the junction of the existing Stony Brook conduits and the Boston Marginal Conduit and other work, has been postponed until 2.30 p. m., Jan. 20. Revised plans and specifications are being prepared and will be ready about Jan. 14. Pamphlets containing further information for bidders, forms of proposal, contract and specifications will be mailed to contractors who apply to the Chief Engineer, or may be obtained at his office, 367 Boylston St., Boston, where also plans may be seen. The printed form must be used in making proposals. Plans and specifications are also on file at the office of Engineering News, New York. (Noted on Dec. 5.)

CIVIL SERVICE EXAMINATIONS.

ASSISTANT ENGINEER OF TESTS.—Watertown, Mass.—The U. S. Civil Service Commission announces an examination on Jan. 22 to secure eligibles from which to make certification to fill two vacancies in the position of assistant engineer of tests in the testing laboratory at Watertown Arsenal, Mass., at $1,200 a year each, and vacancies requiring similar qualifications as they may occur in any branch of the service. Application Form 1312.

ENGINEER, DRAFTSMAN, ETC.—Albany, N. Y.—The State Civil Service Commission will hold examinations Feb. 1 for the following positions: Bridge Designer, $1,500 to $2,100; Civil Engineering Draftsman, $4 to $5 a day; Foreman of Orchards, Geneva Experiment Station, $720; Inspector of Nurseries, Dept. of Agriculture, $1,200; Inspector of Records and Accounts, Board of Charities, $1,400; Leveler, $4.50 to $5 a day; Steam Engineer, Monroe County Service, $900. The last day for filing applications for these examinations is Jan. 25th. Full information and application forms may be obtained by addressing the Chief Examiner of the Commission, at Albany. Charles S. Fowler.

OPERATORS.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on Jan. 22 to secure eligibles from which to make certification to fill vacancies as they may occur in the

position of Lanston operator and Mergenthaler operator, either sex, at 50 cents an hour or $4 a day, in the Government Printing Office. Persons who passed in either of these examinations on Nov. 27, 1907, will not be permitted to enter the same examination on Jan. 22. Persons who failed to pass in either of these examinations may, upon written request to the Commission in due time, take the same examination on Jan. 22 without filing a new application. Persons whose names are now upon the compositor register and who desire to apply for either of these positions will not be required to report for the educational part of the examination, but will be required to file a completed application prior to the date of this examination. Both men and women will be admitted to this examination. Applicants must indicate in their applications for which of these positions they desire to apply. Age limit, 20 years or over. No application will be accepted from any person who has not had at least one year's experience in the operation of Lanston or Mergenthaler machines. Application Forms 1093 and 10936.

INDUSTRIAL NOTES.

THE HAMMOND IRON WORKS, Warren, Pa., announces that Herman Nieter has been succeeded as sales agent at 29 Broadway, New York, by J. B. Hammond.

THE SULLIVAN MACHINERY CO. of Chicago, announces that its branch office at Salt Lake City has been removed from 128 Keith Building to 627 Dooly Building, where rock-drills, etc., will be kept in stock.

THE MILWAUKEE LOCOMOTIVE MFG. CO., of Milwaukee, Wis., is equipping a new plant at North Milwaukee for the manufacture of industrial and contractors' locomotives operated by alcohol or gasoline engines.

THE W. N. WIGHT CO., 160 Fifth Ave., New York, reports that it has recently delivered 70,000 sq. ft. of lock woven steel fabric, to be used in the Ford, Powell & Hammond coal pockets, at Binghamton, N. Y.

THE BOARD OF DIRECTORS, of Riehle Bros. Testing Machine Co., Philadelphia, at a meeting held at their office Dec. 30, declared an annual dividend of six (6) per cent. on the capital stock of the company for the year 1907.

THE WESTERN WHEELED SCRAPER CO., whose general offices are located at Aurora, Ill., announce the opening of a branch office and warehouse at Minneapolis. The former is located at 107-9 Third Ave., North, and the latter at Minnesota Transfer.

THE SANDUSKY FDRY. & MACHINE CO., Sandusky, O., advises us that it has recently sold to the city of East Moline, Ill., an 8 × 12 triplex pump for use in a new Water-works plant. This pump is a duplicate of the one recently furnished to the town of Geneseo, Ill.

THE DAVENPORT LOCOMOTIVE WORKS, Davenport, Ia., have recently shipped several 10 × 16 saddle tank dinky locomotives weighing 18 tons each, to the Isthmian Canal Commission for use at Panama. This is said to be the first shipment of American made contractors' dinkies to the Panama Canal.

THE AMERICAN THREAD CO., Watuppa, Mass., recently purchased a duplicate of the 1500 KW. Allis-Chalmers Steam Turbo-Alternator ordered some months ago. The second unit was bought through the thread agency for the Kerr Mills at Watuppa, and is a 60-cycle, 3-phase, 550-volt machine.

THE PENNSYLVANIA LINES west of Pittsburg will install new electric power and lighting equipment at Mahoningtown, Pa., including three 110-K.W. Allis-Chalmers 60-cycle, 3-phase, 240-volt alternators, and a large number of induction motors of the same company's build, ranging from 5 to 15 HP.

IT IS STATED THAT the Bausch & Lomb Optical Co., Bausch, Lomb, Saegmuller Co., of Rochester, N. Y., and the Carl Zeiss Optical Works of Jena, Germany, have united their interests, with the purpose of carrying to the highest possible development the production of optical, physical and engineering instruments.

THE RAIL JOINT CO., whose general offices are at 29 West 34th St., New York City, informs us that its output in 1907 was in excess of any previous year. It is an indication of the extent to which improved rail joints are replacing the old-time angle-bar, that the rail joints shipped by this company up to date are more than sufficient to equip a railway that would encircle the earth. The company is hopeful of a good business year in 1908.

THE SPENCE MFG. CO., 475 Broadway, St. Paul, Minn., reports that it has filled an order from the Cunard Steamship Co., of New York, for three portable electric conveyors for use in loading and unloading the steamers "Mauretania" and "Lusitania." It has also shipped two 50-ft. electric conveyors to the Federal Sugar Refining Co., of Yonkers, N. Y., to be used in carrying 350-lb. sacks of raw sugar from ships to the hoppers in the refinery. This type of conveyor was illustrated in our issue of Dec. 26, 1907.

THE E. H. MUMFORD CO., Philadelphia, Pa., has acquired by purchase all the patent rights, molding machines and equipment of Ph. Bonvillain & E. Ronceray, in the United States, and has added to its molding machine line these very important machines and pattern processes. The offices of the E. H. Mumford Co. will be removed from 17th and Callowhill Sts., their present location, to 1315 Race St., Philadelphia, where the French machines have been for some months installed as a working exhibit.

BURNS & COMPANY, consulting corporation specialists, announce the perfecting of their organization wtih offices in the Isabella Bldg, Chicago. The company offers the services of associated experts in consultation and personal examination in all matters pertaining to the promotion and preliminary work of public service and industrial projects, steam and electric railways, and all engineering undertakings. The company is fitted to give advice concerning any particular feature of the project from its organization to financing and final floatation, and during construction will give consultation service either with or without engineering advice. The staff of Burns & Company has been brought together by Mr. J. J. Burns, well known in the promotion and construction of steam and electric railroads.

THE WEBER GAS ENGINE CO., Kansas City, Mo., states that a careful service and economy test of the 250-HP. Weber Gas Engine and Suction Gas Producer, installed in the large manufacturing plant of McClary Mfg. Co., London, Ontario, demonstrated conclusively that it surpassed the guarantee called for in the contract. In regular operation less than .95 of a pound of coal per B.HP. hour is used. Their total cost for generating power including fuel, labor, supplies, depreciation and interest on the investment shows a profit over purchased power.

THE FOOS GAS ENGINE CO., of Springfield, Ohio, has purchased the business of the Marinette Gas Engine Co., which comprises the line of Walrath multiple cylinder engines for electric and power work, from 20 to 500 HP.

This engine has been on the market for over ten years, is highly recommended by its present users, and, as manufactured under the factory system of the Foos interests, is one of the best engines of its type.

This complete line of vertical engines, with the line of horizontal engines from 2 to 90 HP., with their various equipments, which have been on the market for 20 years, makes the Foos line very comprehensive.

THE POWER SPECIALTY CO., 111 Broadway, New York, manufacturers of the Foster Patent Steam Superheater, report a very gratifying increase in the volume of business secured for 1907, as compared with any previous year. The past ninety days has witnessed some falling off in orders, but renewed inquiries within the past few weeks and resumption of negotiations temporarily deferred by reason of recent financial conditions, indicate that a large number of contracts will be closed soon after the first of the year. Among recent orders for Foster superheaters for installation in practically all types of boilers, the following are mentioned:

Bernheimer & Schwartz Brewing Co., 2000-HP., in Heine boilers; Schlitz Brewing Co., 2000-HP., in Edge Moore boilers; Clark Thread Co., 2500-HP., in Sterling boilers; Megargee Paper Co., 750-HP., in Continental boilers; Wisconsin Steel Co., 7000-HP., in B. & W. boilers; Solvay Process Co., 1800-HP., in B. & W. boilers.

THOMAS W. PANGBORN CO., New York, with factory and warehouse in Jersey City, manufacturers, dealers and agents in equipment and supplies for foundries, pattern and machine shops, boiler, structural and bridge shops, operating on a co-partnership plan for several years, has been made into a corporation retaining the same name and the active management will be unchanged.

The corporation began business Jan. 1, with a capitalization of $60,000, $55,000 of which has already been paid in. The officers are: Thomas W. Pangborn, Pres. and Treas.; Edward R. Cooledge, Vice-Pres.; John C. Pangborn, Secy. The directors are composed of the above officers and John B. Peck, Pres., W. R. Ostrander & Co., New York; A. J. Powell, Gen. Mgr. Bradbury Piano Co., Secy. Webster Piano Co., Brooklyn, N. Y.; S. E. Martin, of Hoy, Martin & Burnet, Attorneys, New York; Frederick Schumann, retired, Brooklyn, N. Y.

THE TONAWANDA IRON & STEEL CO., of North Tonawanda, N. Y., installed a 4000-HP. We-Fu-Go Water Softening and Purifying System, in 1900. Since that time it has been necessary to open the boilers only once a year for washing out and inspection. This company has just placed a second order with Wm. B. Scaife & Sons Co., of Pittsburg, Pa., for an addition to their present system, to take care of increased boiler capacity of 4000-HP., making a total of 8000-HP.

Among the recent orders taken by Wm. B. Scaife & Sons Co., for We-Fu-Go and Scaife Water Softening and Purifying Systems, are the following:

Rochester & Pittsburg Coal & Iron Co., Walston, Pa., 1250-HP. We-Fu-Go System; Clearfield Bituminous Coal Corp., Rossiter, Pa., 1800-HP. We-Fu-Go System; Wickwire Steel Co., Buffalo, N. Y., 4000-HP. We-Fu-Go System; Union Brewing Co., Sharon, Pa., 500-HP. We-Fu-Go System; Saratoga Textile Co., Saratoga Springs, N. Y., 2400-gallon per hour We-Fu-Go System; American Sheet & Tin Plate Co., Cambridge, Ohio, 2000-HP. We-Fu-Go System; George J. Renner, Jr., Brewery, Youngstown, Ohio, 500-HP. Scaife System; Peoples' Brewing Co., Terre Haute, Ind., 700-HP. We-Fu-Go System.

THE B. F. STURTEVANT CO. reports through F. R. Chinnock, its New York representative, the following recent sales of electrical equipment: Board of Water Supply, Babylon, N. Y., one 9 × 8 vertical center crank engine direct connected to one (1) of our standard slow speed 25-KW. generators; Hanover National Bank, New York City, one 12 × 10 engine direct connected to 50-KW. generator; Eberhard Faber Pencil Co., Brooklyn, N. Y., one 16 × 14 horizontal automatic center crank engine direct connected to one (1) 100-KW. generator; Bouker Contracting Co., New York City, one 4½ × 4½ engine direct connected to 5-KW. generator; Central Union Gas Co., New York City, one 5 × 7 engine direct connected to 15-KW. generator; Vulcan Detinning Co., Sewaren, N. J., one 7 × 7 vertical engine; Hotel Takanassee, Long Branch, N. J., one 16 × 14 engine direct connected to one 75-KW. generator; one 13 × 12 horizontal engine direct connected to 50-KW. generator; H. J. McCoy, New York City, one 11 × 9 vertical engine; Washburn Brothers, Saugerties, N. Y., one 25-HP. motor; New York State Reformatory for Women, Bedford, N. Y., one 13 × 12 horizontal engine direct connected to 50-KW. generator; Isidor Fajans, New York City, one 6 × 6 engine direct connected to 10-KW. generator; Votey Organ Co., Garwood, N. J., one 3½ × 3 engine direct connected to 3-KW. generator; Johnson & Johnson, Steamer "Robert Johnson," one 6 × 6 vertical engine direct connected to 7½-KW. generator; Andrew McLean Co., Passaic, N. J., one 6 × 6 vertical engine; Royal Mfg. Co., Rahway, N. J., one 8 × 6 vertical engine direct connected to 6-KW. generator; New York Engineering Co., New York City, three 4½ × 4½ vertical engines direct connected to 5-KW. generators; Parker Engineering Co., New York City, one 14 × 14 engine direct connected to 75-KW. generator; Henry Steers, Inc., New York City, three 7½-KW. generators; Samuel Smith & Sons, Paterson, N. J., one 14 × 14 direct connected to two 50-KW. generators.

TRADE PUBLICATIONS.

WIRE ROPE.—The Broderick & Bascom Rope Co., 805-9 North Main St., St. Louis. Price-list G. Paper; 3¼ × 6¼

This pamphlet gives descriptions and prices of wire rope and sundry appliances for mining use.

TRACK TOOLS AND APPLIANCES.—Cook's Standard Tool Co., Kalamazoo, Mich. Paper; 6 × 9 ins.; pp. 16; illustrated.

Track drills, drill grinders and drill bits are dealt with mainly. Track jacks and surface cattleguards with both steel and wooden slats are also included.

STORAGE BATTERIES.—The Westinghouse Machine Co., East Pittsburg, Pa. Catalog P. Paper; 6 × 9 ins.; pp. 32; illustrated.

This catalog consists almost entirely of illustrations and tables of dimensions, weights, etc., of various arrangements of the Westinghouse storage battery for portable use.

POWER TRANSMISSION MACHINERY.—The F. M. Davis Iron Works Co., Denver. Catalog No. 35. Paper; 6 × 9 ins.; pp. 36; illustrated.

Clutches, couplings, pulleys, conveyor guides and elevator accessories, etc., are shown in this catalog.

LOOSE LEAF SYSTEMS.—Loose Leaf System & Binder Co., 10 Reade St., New York City. Paper; 7 × 10 ins.; pp. 16; illustrated.

Engineers with records to keep, and wishing to keep them systematically, will find this pamphlet readable.

MINE HOISTS.—The Hendrie & Bolthoff Mfg. & Supply Co., Denver. Paper; 7 × 4¾ ins.; pp. 64; illustrated.

"The Hoist Question" is the title of this pamphlet. It covers all kinds of hoists—steam, gasoline, electric and horse-power (whims)—for all purposes.

BLOWERS FOR MINES.—American Blower Co., Detroit, Mich. Brochure. Paper; 6½ × 3¼ ins.; pp. 16; illustrated.

This brochure consists of extracts from several larger catalogs of this company and is intended to suggest the lines of apparatus handled of especial use in mine ventilation.

ELECTRIC LIGHTING.—National Electric Lamp Association, 4411 Hough Ave., Cleveland, Ohio. Second Editions of Bulletins 5A, 6A and 7.

Two of these bulletins describe the tungsten and tantalum incandescent lamp and the third presents a variety of data on illumination.

INTERIOR LIGHTING APPARATUS.—General Electric Co., Schenectady, N. Y. Bulletin 4542. Paper; 8 × 10½ ins.; pp. 8; illustrated.

Concentric and inverted diffusers for adapting arc lamps to interior use are described with a little data on their use in lighting large areas of stores, shops and armories.

POST AND BEAM CHART.—Thornton-Claney Lumber Co., 1,000 Elston Ave., Chicago. Cardboard chart; 10½ ins. diameter. Prepared and copyrighted by F. W. Steeg, C. E. $1.

This is a chart for ascertaining the size or strength of timber posts and beams for different heights and spans and for different loadings.

FEED WATER HEATERS.—The Harrison Safety Boiler Works, 17th St. and Allegheny Ave., Philadelphia. Mailing circular. Paper; 15 × 9 ins.; pp. 2; illustrated.

This overgrown postal card relates several examples of savings of power or increase of capacity in wood-working plants by the use of Cochrane feed-water heaters.

WHEELBARROWS, SCRAPERS, CARTS, ETC.—The Kilbourne & Jacobs Mfg. Co., Columbus, Ohio. General Catalog No. 34. Paper; 6 × 9 ins.; pp. 92; illustrated.

A very complete line of the above accessories to construction work is shown here. An insert sheet shows a new concrete wheelbarrow for front dumping.

WELDED STEEL PIPE.—National Tube Co., Pittsburg, Pa. Paper; 6 × 9 ins.; pp. 31; illustrated.

In a handsome and artistic pamphlet printed in two colors, this company has outlined the old and new methods of making welded pipe. The processes are followed from mine to consumer. The engravings accompanying the text are very attractive.

HOISTING AND HAULING ENGINES, ETC.—The Crawford & McCrimmon Co., Brazil, Ind. Paper; 5¼ × 7¾ ins.; pp. 44; illustrated.

In addition to a line of hoisting engines, this catalog shows several ventilating fans and pumps. Boilers for mining purposes are also a specialty of the company. A number of customers' testimonials are reproduced.

STEAM TURBINES.—B. F. Sturtevant Co., Hyde Park, Mass. Bulletin 151. Paper; 6½ × 9 ins.; pp. 16; illustrated.

The type of turbine recently put on the market by this company and described in Engineering News, Oct. 31, 1907, is the theme of this publication. The details of design and manufacture are shown with tables of dimensions, speeds and weights.

MINE SUPPLIES AND HOISTING MACHINERY.—The F. M. Davis Iron Works Co., Denver. Catalogs Nos. 32 and 41. Paper; 6 × 9 ins.; pp. 37 and 54; illustrated.

Catalog 32 covers such material as cars and skips, cages, tipples, track and accessories, etc.

Catalog 41 includes all varieties of hoists—steam, electric, gasoline, horse and hand.

ROCK DRILLS.—The C. T. Carnahan Mfg. Co., 36th and Wazee Sts., Denver. Paper; 7½ × 5 ins.; pp. 42; illustrated.

The Murphy air-hammer rock drill, described in this pamphlet, requires no mounting, but operates like an ordinary air-hammer riveter. The makers claim that with their hand drills one man can drill from 45 to 65 ft. of hole per shift. The drill may be column-mounted if desired.

"WOODBURY SYSTEM OF CONCENTRATION."—The National Ore Concentration Co., Wells Bldg., Milwaukee. Bulletin 4; paper; 6 × 9 ins.; pp. 12; illustrated.

The Woodbury slime classifier and Woodbury jig are described and illustrated, and also combination installations of the two as they are usually used in practice. "The economy of the Woodbury system consists primarily in the simplification of the processes usually intervening between the crushing section of a mill and the smelter."

LUBRICATING DEVICES.—The Lunkenheimer Co., Cincinnati, Ohio. Pamphlets 523, 524, 526 and 528. Paper; 3½ × 6½ ins.; pp. 12, 28, 32 and 32.

Pamphlet 523 describes a line of grease cups; 524 is devoted to oil cups for engine and machinery bearings; 526 shows the Lunkenheimer cylinder lubricators for steam, gas, gasolene and oil engines, for pumps, compressors, etc.; in 528 the use of more extensive oiling systems for engine and machinery bearings, than given in No. 524, is shown.

MILLING AND SMELTING MACHINERY.—The F. M. Davis Iron Works Co., Denver. Catalogs Nos. 37 and 38. Paper; 6 × 9 ins.; pp. 116 and 106; illustrated.

Catalog 37 includes crushers—both jaw and roll—stamps and parts, mortars, feeders, conveyors, screens, and roasters and dryers. The line is very complete.

Catalog 38 is substantially similar, and includes some of the same apparatus. It is more particularly devoted to smelter machinery, however, and includes converters, special furnaces, etc.

CEMENT.—Dragon Portland Cement. The Lawrence Cement Co., 1 Broadway, New York. 5¼ × 8 ins.; pp. 126; illustrated.

The 1908 edition of the handbook of the manufacturers of this well-known brand of cement is prepared in excellent style. It contains considerable information concerning the general character of cement in addition to a list of testimonials in praise of the Dragon brand. A remarkably artistic engraving of the new Connecticut Ave. bridge at Washington is to be found on the back cover.

CUSHIONED NON-RETURN VALVES AND OTHER VALVES AND APPLIANCES FOR STEAM USERS.—Golden-Anderson Specialty Co., Pittsburg, Pa. Paper; 5½ × 8 ins.; pp. 56; illustrated.

The valves to which the first part of this catalog are devoted are particularly designed for use as stop valves on steam boilers set in a battery. They are automatic valves, so designed that in case of any accident to the boiler, such as a collapsed or burst tube, the valve will close and prevent the steam from the other boilers of the battery escaping through the break. Valves of this general type are in extensive use in all modern steam plants and ought to be universally specified. A special feature of the Anderson valves, however, is an inside bronze dash pot, which brings the valve gently to its seat under such conditions, together with a positive guide, that insures certain closing. Besides these valves, the catalog also contains a line of steam traps, "Clean Seat" valves, plug cocks, automatic float valves for stand-pipes, etc., and pressure-reducing valves.

VALVES.—The Nelson Valve Co., Chestnut Hill, Philadelphia, Pa. Illustrated Catalog and Price List "H." 6 x 9 ins.; pp. 52; illustrated.

This is a price list of improved gate and globe valves for steam, water, gas, air, ammonia, etc.

STEAM ENGINES.—Allis-Chalmers Co., Milwaukee, Wis. Bulletins 1501 and 1512. Paper; 8 x 10½ ins.; pp. 20 and 12; illustrated.

The "Reliance" type of Reynolds-Corliss belted engines was developed some three years ago to meet the demand for a strong and serviceable engine, occupying less floor space and running at higher speeds than the usual Corliss types. In this bulletin details of frame, bearing, cylinder, valve-gear and governor construction are given.

Bulletin 1512 contains much general information on the growth and use of compound Corliss engines. Details of construction of any particular form are not shown.

DRYING KILNS.—American Blower Co., Detroit, Mich. Catalog 225. Paper; 7 x 8½ ins.; pp. 78; illustrated. Brochure. Paper; 6½ x 3½ ins.; pp. 16; illustrated.

About half the first pamphlet is devoted purely to this concern's system of moist-air dryers for lumber. The other part of the book contains descriptive matter on dry kiln specialties, such as blowers, engines, structural steel fittings, trucks, doors, steam separators, thermometers, etc.

The brochure describes the use of the Scott kiln-drying system of brick manufacture. This is essentially a mechanical conveying system and has no special drying machinery. The wet bricks are dried in place for burning.

"AUTOMATIC CYANIDING MACHINERY." —The Blaisdell Co., Pacific Electric Bldg., Los Angeles, Cal. Catalog F; paper; 6 x 9 ins.; pp. 32; illustrated.

To quote from the company's statements, "The Blaisdell System, consisting of excavators, distributors, belt conveyors and tailing stackers, will transfer sand from a collecting to a leaching vat or to a dump, at the rate of 100 tons per hr., at a cost of one cent per ton. Blaisdell excavators remove sand from a vat at the rate of 100 tons per hr., at a cost of one-half cent per ton."

The catalog shows illustrations of plants in operation in the West, in South Africa, etc., and detail photographs of the apparatus and its parts.

ALTERNATING CURRENT MOTORS.—The General Electric Co., Schenectady, N. Y. Bulletin 4545. Paper; 8 x 10½ ins.; pp. 10; illustrated.

This company has developed a single-phase motor, on simple lines and in sizes from ¼ to 15 HP., for single phase distribution lines from polyphase generation systems. The motors are best adapted to loads requirin moderate starting torque, though clutch couplings and pulleys may be used where the apparatus is to be started under load. This motor is known as Type 18, Form KG.

The bulletin illustrates various sizes, describes the details of construction and operation, shows forms of starting boxes, and gives a large amount of general information.

THE EXCAVATION OF ROCK BY MACHINERY.—Sullivan Machinery Co., Railway Exchange, Chicago. Paper; 6 x 9 ins.; pp. 79; illustrated.

This handsome publication is a descriptive catalog of machinery employed in rock excavation, and is illustrated by numerous engravings of machines and of construction work in which they are employed. Drills for tunnel, quarry and other work occupy considerable space, and there is information as to the proper shaping of drill bits. The air-hammer drill is also described. The remainder of the pamphlet is devoted to air-compressors, coal-cutting machines, core drills for prospecting work, and several minor specialties. There are also tables of the air consumption of machines operated by compressed air.

ELECTRICAL INSTRUMENTS. — General Electric Co., Schenectady, N. Y. Bulletins 4549 and 4552. Paper; 8 x 10½ ins.; illustrated.

Bulletin 4549 describes in four pages the Thomson high torque induction test meter. This instrument, in its present form, has been developed to supply the demand for an appliance by which service meters could be periodically calibrated without the trouble of removing them from use on the customers line.

Bulletin 4552 contains eight pages on direct-current switchboard instruments of D'Arsonval type of mechanism. This pamphlet shows their construction, and gives dimension diagrams of instruments and shunts, full sized views of the scales, and data regarding catalog numbers, capacities, prices, etc.

REINFORCED CONCRETE.—Expanded Metal Engineering Co., 225 Fifth Ave., New York. 8 x 5 ins.; pp. 176; illustrated.

This is a descriptive list of the "Expanded Metal System of Steel Concrete Construction" and contains many photographic examples of work constructed under its details.

MARINE ENGINES.—Marine Iron Works, Chicago, Ill. Paper; 6 x 9 ins.; pp. 16; illustrated.

This is a supplementary catalog including compound triple-expansion and stern-wheel engines, circulating pumps, deck and freight hoists, firebox boilers, condensing plant and engines for steam launches.

POCKET MINING TRANSIT.—Taylor Brothers Co., Rochester, N. Y. Paper; 6 x 4¾ ins.; pp. —; illustrated.

The Verschoyle transit is an English instrument, built by Short & Mason, of London, and is claimed to combine the features of the Abney level, prismatic compass, and clinometer. Its construction and use are described.

WATERPROOFING CONCRETE. — The American Cement Waterproofing Co., 1213 Filbert St., Philadelphia. 3½ x 6½ ins.; 4-fold sheet.

This folded sheet is an exposition of the virtues of a patented compound "Aquabar," a water-like solution of such composition that will render a concrete impervious when it is added to the mixture in making.

CONCRETE MIXERS.—Eureka Machine Co., Lansing, Mich. 8 x 10½ ins.; 8 sheets; illustrated.

This descriptive account of a new and improved concrete measurer and mixer combined has been prepared in the usual stock form for a specification and for that reason furnishes an admirable idea of the good points of the mixer.

REINFORCED CONCRETE. — "Handbook and Catalog of Concrete Reinforcement." American Steel and Wire Co., Chicago. Boards; 6 x 9 ins.; pp. 118; illustrated.

This book is intended to be more than its title implies and covers in a concise manner the whole subject of reinforced concrete rather than just reinforcement. The material is taken mostly from standard works on the subject, but there are also included many tables of sizes which can not be found outside of trade catalogs.

HEAVY ELECTRIC TRACTION.—General Electric Co., Schenectady, N. Y. Bulletins 4537 and 4546. Paper; 8 x 10½ ins.; pp. 22 and 18, respectively; illustrated.

"The Electrification of the West Shore Railroad Between Utica and Syracuse" is the title of Bulletin 4546. The description is along lines similar to the article in Engineering News of June 27, 1907, but in much greater detail. The illustrations of the 60,000-volt transmission line, highway crossings, third rail details, etc., are unusually interesting.

"The Electric Locomotive in Heavy Passenger and Freight Work" is the title of Bulletin 4537, in which is described a large number of present and proposed representative types of electric locomotives built by the company. Dimension drawings, data tables and characteristic curves are given of locomotives ranging from 17 to 150 tons for mining, high speed passenger, slow speed freight, mountain-grade trunk lines, and most other classes of service. A preface outlines the construction and characteristics of the General Electric heavy traction motors and locomotives, with figures relative to the saving effected by the substitution of electric for steam traction in both passenger and freight work.

For other Proposal Advertisements see pages 47, 48, 52 of Advertisements and Construction News page 14.

STATE OF NEW YORK.

OFFICE OF SUPERINTENDENT OF PUBLIC WORKS.

NOTICE TO CONTRACTORS.

Albany, January 8, 1908.

Sealed proposals will be received by the undersigned at his office in the Capitol in Albany, N. Y., until twelve o'clock noon of Friday, January 31st, 1908, at which place and hour they will be publicly opened and read, for improving the New York State canals, pursuant to the provisions of chapter 147 of the Laws of 1903, and of the amendments thereto, as follows:

CONTRACT NO. 9.

Erie Canal—Section 10.

For the improvement of the present Erie canal from 0.164 miles east of Eagle Harbor bridge to 0.09 mile west of Beal's bridge. Length of contract, 5.682 miles.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N.Y.; at the office of the Assistant Superintendent of Public Works for the Middle Division, at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y.; and at the canal office, Spaulding's Exchange, Buffalo, N. Y. Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90%) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank in good credit within the state and payable at sight to the Superintendent of Public Works, for five per centum (5%) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal. Upon execution of the contract and approval of bonds, the deposit will be returned to the proposer. The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made. The amount of bond required for faithful performance will be twenty-five per centum (25%) of the amount of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10%) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

Each proposal must be addressed: To the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made, the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the State will be enhanced thereby.

F. C. STEVENS,
Superintendent of Public Works.

SEWERS.

Wilmette, Ill.

The Village of Wilmette, Cook County, Illinois, will advertise for bids to be opened Friday, Jan. 24th, 1908, for the construction of a Relief Sewer System involving some five (5) miles of sewer, both concrete and vitrified tile; concrete sewer ranging in size from six (6) feet to thirty (30) inches. Further particulars can be obtained by addressing Charles N. Roberts, Engineer, Reaper Block, Chicago, or the undersigned.

(Signed) E. P. DUNSHEE,
Assistant Secretary,
Board of Local Improvements of the Village of Wilmette.

CAST-IRON WATER PIPES, ETC.

Marion, Mass.

The Town of Marion, Mass., will receive proposals for furnishing Cast-Iron Water Pipes, Special Castings, Hydrants, Water Gates and Gate Boxes, until 7 P. M., Wednesday, Jan. 15, 1908, and specifications in blank form of proposals can be obtained by intending bidders upon application to the Engineer at 101 Tremont St., Boston, Mass.

HARRY E. CONVERSE,
FRANK M. PATTEN,
GEO. M. DELANO,
Water Commissioners.
LOUIS E. HAWES,
Engineer.
Marion, Mass., Jan. 3, 1908.

U. S. ENGINEER OFFICE, Wilmington, Del., Jan. 7, 1908.—Sealed proposals for dredging Mispillion River, Del., will be received here until 11 o'clock a. m., Feb. 6, 1908, and then publicly opened. Particulars on application. C. A. F. FLAGLER, Major, Engrs.

COMMONWEALTH OF MASSACHUSETTS

CHARLES RIVER BASIN COMMISSION.

NOTICE OF POSTPONEMENT.

Boston, Mass.

On account of change in the location of the gate-chamber, requested by the Boston Transit Commission, the opening of bids advertised for Monday, January [illegible], 1908, at 2.30 o'clock p. m., for the gate-chamber at the junction of the existing Stony Brook conduits and the Boston Marginal Conduit and other work, has been postponed until 2.30 o'clock p. m., of Monday, January 20, 1908. Revised plans and specifications are being prepared and will be ready about January 14. Pamphlets containing further information for bidders, forms of proposal, contract and specifications will be mailed to contractors who apply to the Chief Engineer, or may be obtained at his office, No. 367 Boylston Street, Boston, where also plans may be seen. The printed form must be used in making proposals. The Commission reserves the right to reject any or all proposals and to accept the proposal deemed best for the Commonwealth. HENRY D. YERXA, Chairman; JOSHUA B. HOLDEN, EDGAR R. CHAMPLIN, Charles River Basin Commission; HIRAM A. MILLER, Chief Engineer; WILLIAM S. YOUNGMAN, Secretary.

Situations Wanted

Mechanical and Electrical Engineers.

MECHANICAL ENGINEER, experienced designing and superintending large and small work, automatic machinery; first-class draftsman; executive ability; salesmanship; connection with high-class concern; more inducement than salary. Address "X. B. 2," Engineering News, New York. 2-1t

Surveyors.

COOPER UNION STUDENT (21) wishes to break in with surveying corps; some experience; little compensation. Address "M. B. 2," Engineering News, New York. 2-1t

FIRST-CLASS SURVEYOR wants employment; experienced fine city work, property lines, etc. Is good engineer; experienced sewers, paving, water-works, parks; railroad location, construction; field or office. Address "A. B. 2," Engineering News, New York. 2-2t

Draftsmen.

YOUNG MAN (20) desires position as draftsman; 1½ years' experience; A-1 References. Address "O. B. 2," Engineering News, New York. 2-1t

Superintendents, Misc., etc.

ENGINEER would like engagement on construction work, inspection and superintendence; present location, New York. Address "Z. B. 2," Engineering News, New York. 2-1t

YOUNG MAN, technical education, experience in drafting and surveying, wishes position. Address "R. B. 2," Engineering News, New York. 2-1t

Situations Open

WANTED—Expert accountant and general office man for good position in Western city. Experience with railroad, manufacturing and corporation accounting desirable. Replies should be in applicants' own hand writing and should state age, nationality, education, experience, whether married or single, and salary expected, together with well-known references. Only active, experienced and high-class man need apply. Address "B. B. 2," Engineering News, New York. 2-2t

WANTED—First-class assistant marine engine and boiler draftsman, $4.00 per diem, and third-class assistant marine engine and boiler draftsman, $3.52 per diem. An examination will be held at the Navy Yard, Brooklyn, N. Y., January 21, 1908, to fill the above positions. For application and further information, address COMMANDANT, Navy Yard, Brooklyn, N. Y. 2-1t

WANTED—Construction superintendent or manager. An established contracting company of long standing, having large steam shovel, concrete and tunnel plants, now engaged on important contracts, wants experienced, active, capable, outside manager as associate, prepared to furnish thirty to fifty thousand cash, working capital. Address, with full particulars as to experience, references, etc., "C. B. 2," Engineering News, New York. 2-1t

Miscellaneous Wants

WANTED.

Second-Hand Iron Cylindrical Tank

to hold from 15 to 25 thousand gallons. Address "D. B. 2," Engineering News, New York. 2-1t

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